Table of Contents

TABLE OF CONTENTS **1**

INTRODUCTION **3**

KEY FEATURES 3
MEDIAXCHANGE FAMILY SPECIFICATIONS 4
Input (Decoder) *4*
Output (Encoder) *6*

HARDWARE RECOMMENDATIONS **8**

SOFTWARE INSTALLATION **9**

INSTALLSHIELD SUITE 9
PROCEDURE : 10
Previous versions clean-up *10*
MediaXchange Installation *10*
DV Extra Codec Installation *16*
MPEG Extra Codec Installation *18*
DVCPRO HD Extra Codec Installation *20*

XSECURE LICENSE KEYS **23**

LIST OF THE CODES VS OPTIONS 23
MediaXchange Software Options *23*
MediaXchange Import & Decoding *23*
MediaXchange Export & Encoding *24*
MediaXchange NLE Interface *25*

SYSTEM CONFIGURATION **26**

GENERAL SETTINGS 27
History Logs *28*
Scan Mode *28*
Miscellaneous 29
TXT Files 29
EVS Trimming *30*
Graphic Files Encoding *31*
Post Processing *31*
Miscellaneous *32*
CODEC SETTINGS 33
Mode : Encoders *33*
M-JPEG - EVS XT 34
DV Family 37
DVCPRO HD 39
IMX – D10 41
MPEG-2 43
MPEG-1 45
HDV 47

EVS HD MJPEG Conversion....50
Graphic File XT Encoder....52
Avid DNxHD® Encoder....54
Mode : Wrappers....*56*
MJPEG EVS to MJPEG Leitch DPS....56
MJPEG EVS to MJPEG Quick Time....57
MJPEG Leitch DPS to MJPEG EVS....59
MJPEG Quick Time to MJPEG EVS....60
IMX EVS to IMX MXF OP1A....61
IMX MXF OP1A to IMX EVS....62
IMX EVS to IMX Quick Time....63
IMX Quick Time to IMX EVS....65
AVID DNXHD® EVS to Quick Time....66
AVID DNXHD® Quick Time to EVS....67

GUI OVERVIEW....69

APPLICATION MODES....70
PROCESS MONITORING....71
HISTORY LOG....72
ALARMS....74
DESTINATION DRIVE STATUS....75

APPLICATION MODES....76

SINGLE MODE....76
Description of the interface....*76*
Input....76
OUTPUT....77
Procedure....*78*
BATCH MODE....80
Description of the interface....*80*
Default....80
Input zone....81
Procedure....*82*
SCAN MODE....83
Description of the interface....*83*
Output....83
Scanning zone....85
Procedure....*86*
Conversion Criteria....*87*

Introduction

MediaXchange is the latest software application to bridge the gap between EVS world-renowned broadcast production servers and 3rd party tools. Whether in live production or in post-production, it helps to build a more transparent workflow by converting media between an EVS server and other vendors' applications.

MediaXchange is the ideal complement to EVS Integrated Production System (IPS). Thanks to its support for the industry standard MXF file format, MediaXchange eases the transition to new environments.

For example, footage shot on Sony XDCAM™ Panasonic P2™ camcorders can be made directly available on EVS XT series servers for live production with maximum efficiency. As another example, content produced on an XT server, can be re-edited on popular editors such as Apple Final Cut Pro™, Avid™ or Leitch Velocity™ thanks to MediaXchange batch conversion processes.

Key Features

- Supports all popular codecs : MPEG-1, MPEG-2, MPEG-4, DV, DVCPRO-25/50,WM9, IMX-D10, M-JPEG, DVCPRO HD, HDV (XDCAM HD), Avid DNxHD® Codec.
- Interoperates with MXF and new video formats (P2™, XDCAM™) in both low and high-resolution
- Generation of a M-JPEG & IMX-D10 EVS sequence from graphic files & sequences
- Natively supports SD and HD (encoder mode)
- Seamlessly interfaces with popular Non-Linear Editors : Apple Final Cut Pro™, Avid™, Leitch Velocity™, ...
- Advanced proxy generator
- Flexible workflow with powerful automation and batch processing interface
- Runs on a Standard Windows XP™ platform

MediaXchange Family Specifications

INPUT (DECODER)

Type	Wrapper	Video	Audio	Metadata	Pricing	Status
Sony XDCAM						
DVCAM	MXF OP-1A, Frame wrapped	DVCAM.	AES3 – 16 bits – 2 mono channels	TC	Option DV	OK
DV AVI	AVI (type 2)	DV25	uncompressed – 16 bits – 2 mono channels		Option DV	OK
IMX	MXF OP-1A, frame wrapped	D10 (IMX)	4 mono channels - AES3 – 16 or 24 bits 8 mono channels - AES3 – 16 bits	TC	Option IMX	OK
HDV (XDCAM HD)	MXF OP-1a	HDV		TC	Option HDV	OK
XDCAM sub (Proxy)	MXF OP-1A	MPEG-4 (Advanced real time Simple profile level 4).	A-law (8 kHz, 48 kbits/sec) – 16 bits			Not yet available
P2 Systems						
P2 HiRes DVCPRO25	MXF OP-ATOM, clip wrapped	DVCPRO 25	PCM – AES3 – 16 bits – 2 mono channels	TC	Option DV	OK
P2 HiRes DVCPRO50	MXF OP-ATOM, clip wrapped	DVCPRO 50	PCM – AES3 – 16 bits – 2 mono channels	TC	Option DV	OK
P2 LoRes	Quicktime extended – as defined in the MPEG-4 ISO standard	MPEG-4 (Advanced real time Simple profile level 4)	16 bits – 24 kHz			Not yet available
DV Family						
DV 25 AVI	AVI (type 2)	DV 25	PCM – 16 bits – 2 mono channels		Option DV	OK
DV 25 Quick Time	Quick Time	DV 25	Uncompressed – 16 bits (SOWT : bytes inverses) – 2 mono channels	TC	Option DV	OK
DV 25 Raw	None	DV 25	PCM – 16 bits – 2 mono channels		Option DV	OK
DVCPRO 25 AVI	AVI (type 2)	DVCPRO 25	PCM – 16 bits – 2 mono channels		Option DV	OK
DVCPRO 25 QuickTime	QuickTime	DVCPRO 25	Uncompressed – 16 bits (SOWT : bytes inverses) – 2 mono/stereo channels	TC	Option DV	OK
DVCPRO 25 Raw	None	DVCPRO 25	PCM – 16 bits – 2 mono channels		Option DV	OK
DVCPRO 50 AVI	AVI (type 2)	DVCPRO 50	PCM – 16 bits – 4 mono/stereo		Option DV	OK

			channels			
DVCPRO 50 QuickTime	QuickTime	DVCPRO 50	Uncompressed – 16 bits (SOWT : bytes inverses) – 2 mono/stereo channels	TC	Option DV	OK
DVCPRO 50 Raw	None	DVCPRO 50	PCM – 16 bits – 4 mono channels		Option DV	OK
DVCPRO HD Quick Time	Quick Time	DVCPRO HD	PCM – 16 bits – 2 mono/stereo channels	TC	Option DVCPRO HD	OK
EVS Family						
EVS MXF SD	MXF Proprietary	MJPEG (Huffman tables not included)	uncompressed – 24 bits – 4 or 8 mono channels	TC, ClipName, Keywords	Basic	OK for decoding, DPS conversion, QT conversion
EVS QT SD	QuickTime	MJPEG-A	PCM – 16 bits – 2 mono/stereo channels	TC	Option FCP	OK for conversion to EVS MXF SD
EVS MXF HD	MXF Proprietary	MJPEG (Huffman tables not included) – 1 band	uncompressed – 24 bits – 4 or 8 mono channels	TC, ClipName, Keywords	Basic	OK for decoding, QT conversion
EVS QT HD	QuickTime	MJPEG-A	PCM – 16 bits – 2 mono channels	TC	Option FCP	OK for conversion to EVS MXF HD
MPEG Family						
MPEG-1	PS or TS	MPEG-1	MPEG-1 Layer 2 – 16 bits	TC	Basic	OK
MPEG-2	PS or TS	MPEG-2 (MP@ML)	MPEG-1 Layer 2 – 16 bits	TC	Basic	OK
IMX OP-1a	MXF OP-1a	D10 (IMX)	4 mono channels - AES3 – 16 or 24 bits 8 mono channels - AES3 – 16 bits	TC	Option IMX	OK
IMX EVS MXF	MXF EVS	D10 (IMX)	4 mono channels - AES3 – 16 or 24 bits 8 mono channels - AES3 – 16 bits	TC	Option IMX	OK
IMX Quick Time	Quick Time	D10 (IMX)	4 mono channels - AES3 – 16 bits 2 mono/stereo channels	TC	Option IMX	OK
Miscellaneous						
DPS Velocity	DPS, DVA	MJPEG (DPS)	uncompressed – 24 bits – 2 mono channels (DVA)	TC (in DVA file)	Option DPS	OK, only to EVS MXF SD
Avid DNxHD® Decoder MXF EVS	MXF EVS	Avid DNxHD® Codec	8 audios channels	TC	Option Avid DNxHD® Decoder	OK
Avid DNxHD® Decoder Quick Time	Quick Time	Avid DNxHD® Codec	2 audios channels	TC	Option Avid DNxHD® Decoder	OK
Pictures	BMP, TGA, TIFF	Bitmap			Option Graphic File	OK

OUTPUT (ENCODER)

Type	Wrapper	Video	Audio	Metadata	Pricing	Status
Sony XDCAM						
DVCAM	MXF OP-1A, Frame wrapped	DVCAM.	AES3 – 16 bits – 2 mono channels	TC	Option DV	OK
DV AVI	AVI (type 2)	DV25	uncompressed – 16 bits – 2 mono channels		Option DV	OK
IMX	MXF OP-1A, frame wrapped	D10 (IMX)	4 mono channels - AES3 – 16 or 24 bits 8 mono channels - AES3 – 16 bits	TC	Option IMX	OK
HDV (XDCAM HD)	MXF OP-1a	HDV	2 audios channels only	TC	Option HDV	OK
XDCAM sub (Proxy)	MXF OP-1A	MPEG-4 (Advanced real time Simple profile level 4).	A-law (8 kHz, 48 kbits/sec) – 16 bits			Not yet available
P2 Systems						
P2 HiRes DVCPRO25	MXF OP-ATOM, clip wrapped	DVCPRO 25	PCM – AES3 – 16 bits – 2 mono channels	TC	Option DV	OK
P2 HiRes DVCPRO50	MXF OP-ATOM, clip wrapped	DVCPRO 50	PCM – AES3 – 16 bits – 2 mono channels	TC	Option DV	OK
P2 LoRes	Quicktime extended – as defined in the MPEG-4 ISO standard	mpeg4 (Advanced real time Simple profile level 4)	16 bits – 24 kHz			Not yet available
DV Family						
DV 25 AVI	AVI (type 2)	DV 25	PCM – 16 bits – 2 mono channels		Option DV	OK
DV 25 Quick Time	Quick Time	DV 25	Uncompressed – 16 bits (SOWT : bytes inverses) – 2 mono channels	TC	Option DV	OK
DV 25 Raw	None	DV 25	PCM – 16 bits – 2 mono channels		Option DV	OK
DVCPRO 25 AVI	AVI (type 2)	DVCPRO 25	PCM – 16 bits – 2 mono channels		Option DV	OK
DVCPRO 25 QuickTime	QuickTime	DVCPRO 25	Uncompressed – 16 bits (SOWT : bytes inverses) – 2 mono/stereo channels	TC	Option DV	OK
DVCPRO 25 Raw	None	DVCPRO 25	PCM – 16 bits – 2 mono channels		Option DV	OK
DVCPRO 50 AVI	AVI (type 2)	DVCPRO 50	PCM – 16 bits – 4 mono channels		Option DV	OK
DVCPRO 50 QuickTime	QuickTime	DVCPRO 50	Uncompressed – 16 bits (SOWT : bytes inverses) – 2 mono/stereo channels	TC	Option DV	OK

DVCPRO 50 Raw	None	DVCPRO 50	PCM – 16 bits – 4 mono channels		Option DV	OK
DVCPRO HD Quick Time	Quick Time	DVCPRO HD	PCM – 16 bits – 2 mono/stereo channels	TC	Option DVCPRO HD	OK
EVS Family						
EVS MXF SD	MXF Proprietary	MJPEG (Huffman tables not included)	uncompressed – 24 bits – 4 or 8 mono channels	TC	Basic	OK for encoding, DPS conversion, QT conversion
EVS QT SD	QuickTime	MJPEG-A	PCM – 16 bits – 2 mono channels	TC	Option FCP	OK for conversion to EVS MXF SD
EVS MXF HD	MXF Proprietary	MJPEG (Huffman tables not included) – 1 band	uncompressed – 24 bits – 4 or 8 mono channels	TC	Basic	OK for encoding, QT conversion
EVS QT HD	QuickTime	MJPEG-A	PCM – 16 bits – 2 mono/stereo channels	TC	Option FCP	OK for conversion to EVS MXF HD
MPEG Family						
MPEG-1	PS or TS	MPEG-1	MPEG-1 Layer 2 – 16 bits	TC	Option MPEG	OK
MPEG-2	PS or TS	MPEG-2 (MP@ML)	MPEG-1 Layer 2 – 16 bits	TC	Option MPEG	OK
MPEG-4	Windows Media	MPEG-4	WM audio 9 – 2 mono channels		Basic	OK
IMX OP-1a	MXF OP-1a	D10 (IMX)	4 mono channels - AES3 – 16 or 24 bits 8 mono channels - AES3 – 16 bits	TC	Option IMX	OK
IMX EVS MXF	MXF EVS	D10 (IMX)	4 mono channels - AES3 – 16 or 24 bits 8 mono channels - AES3 – 16 bits	TC	Option IMX	OK
IMX Quick Time	Quick Time	D10 (IMX)	4 mono channels - AES3 – 16 bits – 2 mono/stereo channels	TC	Option IMX	OK
Miscellaneous						
DPS Velocity	DPS, DVA & WAV	MJPEG (DPS)	uncompressed – 24 bits – 2 mono (DVA) channels or 4 monos (DVA+WAV)	TC, ClipName, Keywords (optional – registry key) (DVA)	Option DPS	OK, only from EVS MXF SD
WM 7o	Windows Media	WM 7	WM audio 7 – 2 mono channels		Basic	OK
WM 8o	Windows Media	WM 8	WM audio 8 – 2 mono channels		Basic	OK
WM 9o	Windows Media	WM 9	WM audio 9 – 2 mono channels		Basic	OK
Avid DNxHD® Encoder MXF EVS	MXF EVS	Avid DNxHD® Codec	8 audios channels	TC	Option Avid DNxHD® Encoder	OK
Avid DNxHD® Encoder Quick Time	Quick Time	Avid DNxHD® Codec	2 audios channels	TC	Option Avid DNxHD® Encoder	Some issues with Avid Interplay Media Composer Importer

Hardware Recommendations

The MediaXchange software is installed on a workstation operating under Windows XP.

The minimum system requirement is

- Workstation or Laptop
- XP Pro OS
- CPU Pentium P4, 2.0 Ghz +
- 512 MB RAM
- GigE connector
- USB2 connector (for P2 link)
- VGA 1024x768

The MediaXchange software run either on a standalone workstation or EVS Xfile & XStore servers.

Software Installation

A new installation procedure has been setup since release 1.06.02.

- EVSEditFramework : This is the new framework used to install codecs and their related dlls within CleanEdit and all the applications using those codecs like MediaXchange. The main advantage is to regroup the latest versions of dlls in the same directory in order to use the same dlls for all the applications. EVSEdit Framework is installed along with MediaXchange. This installshield installs all the dlls except the DV, DVCPRO HD and MPEG codecs that must be installed separately.
- XSecure : From this version, XSecure will be used instead of the Dallas dongle to secure MediaXChange software. XSecure is automatically installed with MediaXchange installshield.

Installshield suite

This installshield directory is composed of the following applications :

- MXC_setup_01.10.06.exe : installshield of MediaXchange
- EVSEditFramework_3_03_04.exe : installshield of EVSEditFramework and associated dlls.
- Install_MC_DV_v6_05_30.exe : installshield of MainConcept DV SD decoding & encoding dlls
- Install_MC_MPEG_v7_01_29.exe : installshield of MainConcept MPEG-1, MPEG-2, IMX and HDV encoding dlls
- Install_MC_DVHD_v6_05_30.exe : installshield of MainConcept DVCPRO HD decoding & encoding dlls

Procedure :

PREVIOUS VERSIONS CLEAN-UP

1. **Uninstall** previous versions of MediaXchange.
2. **For version older than v1.08.04**, delete the MediaXchange and EVSEditFramework directories in C:\Program Files\EVS Broadcast Equipment\. In the registry, suppress following keys :
    a. \HKEY_CURRENT_USER\Software\EVS Broadcast Equipment\MediaXChange
    b. \HKEY_LOCAL_MACHINE\Software\EVS Broadcast Equipment\EvsEdit Framework\

MEDIAXCHANGE INSTALLATION

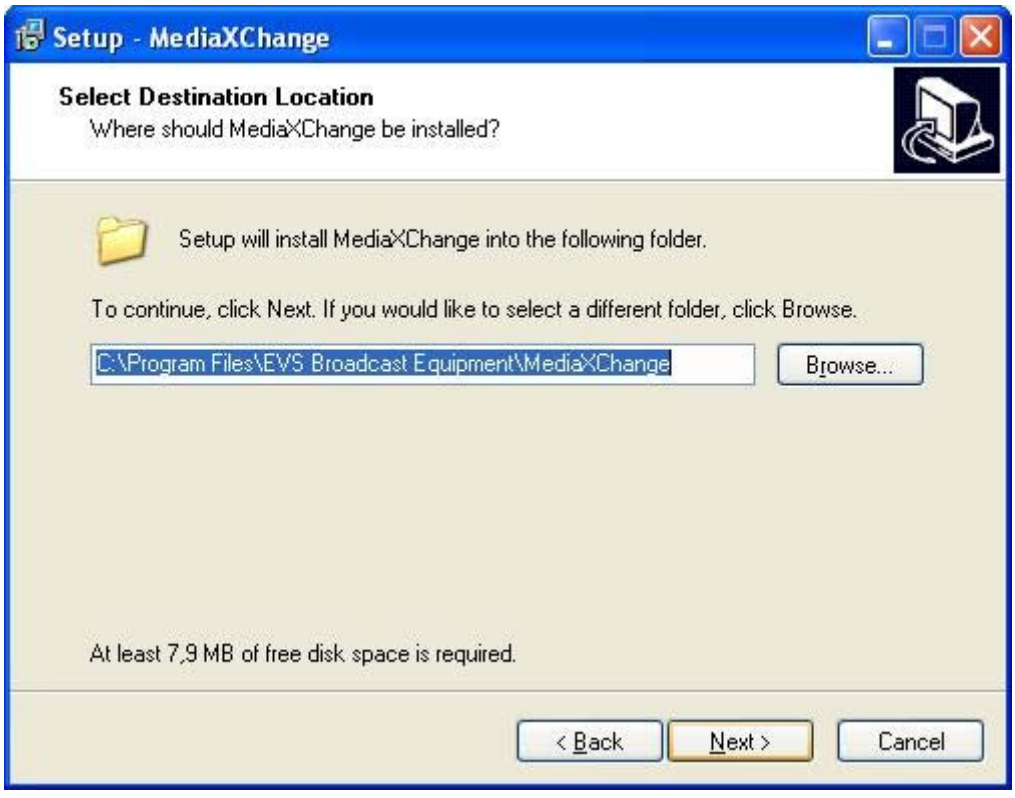
Copy all the files in the installshield directory in a temp directory (e.g. C:\Install Software\MediaXchange\).

Important : EVSEditFramework_V3_03_04.exe must be located in the same directory as MXC_setup_1.10.06.exe

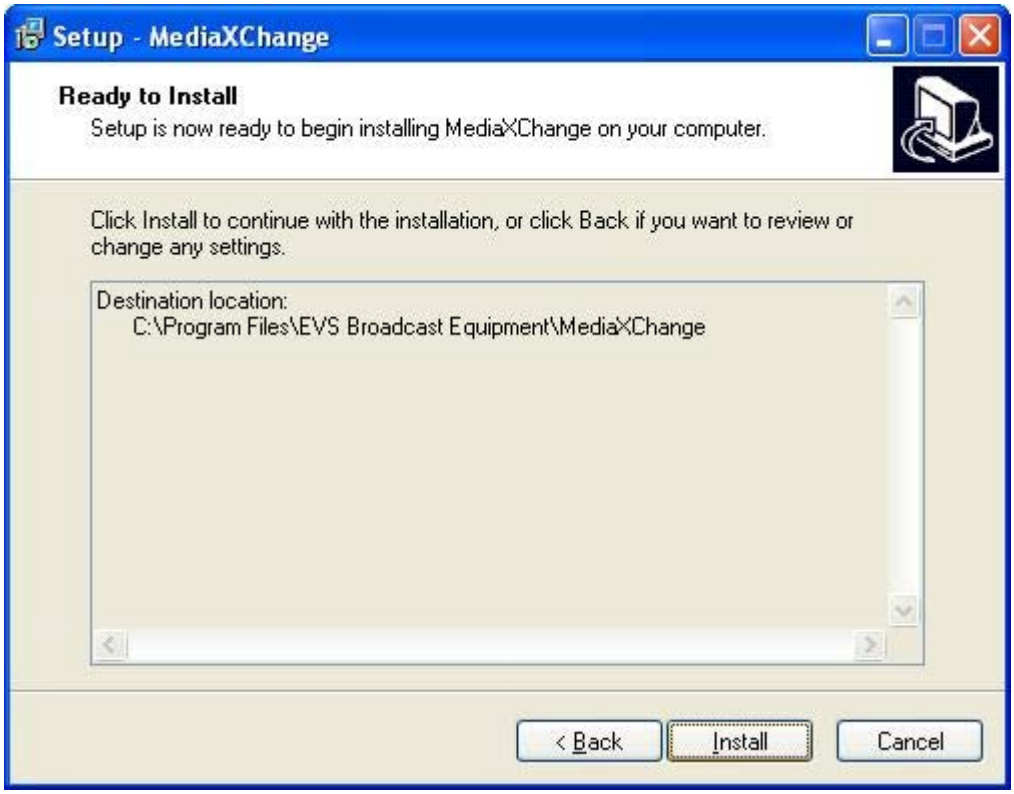
Run MediaXchange installshield **MXC_setup_1.10.06.exe** and then follow the steps of the Setup wizard.

Setup - MediaXChange
Welcome to the MediaXChange Setup Wizard
This will install EVS MediaXChange v.01.10.06 on your computer.
It is recommended that you close all other applications before continuing.
Click Next to continue, or Cancel to exit Setup.
Universal Transcoder
www.evs.tv - copyright 2004
Next >
Cancel

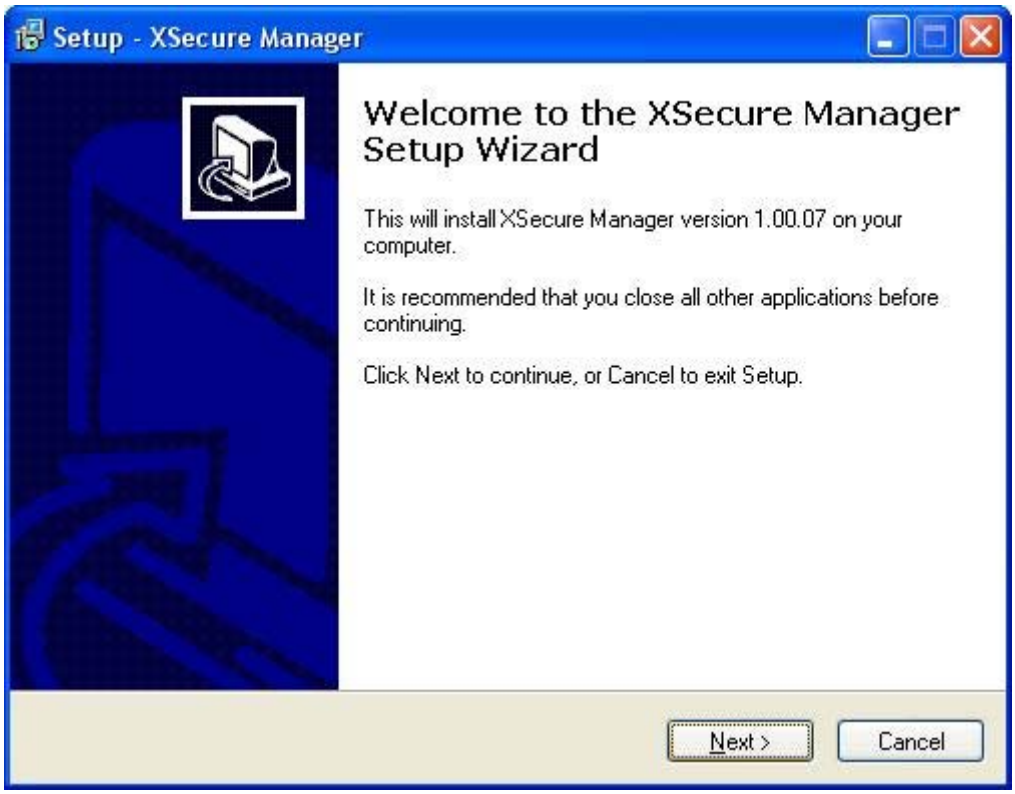
Press NEXT


Setup - MediaXChange
Select Destination Location
Where should MediaXChange be installed?
Setup will install MediaXChange into the following folder.
To continue, click Next. If you would like to select a different folder, click Browse.
C:\Program Files\EVS Broadcast Equipment\MediaXChange
Browse...
At least 7,9 MB of free disk space is required.
< Back
Next >
Cancel

Select the destination directory to install the new software and then press NEXT.


Setup - MediaXChange
Ready to Install
Setup is now ready to begin installing MediaXChange on your computer.
Click Install to continue with the installation, or click Back if you want to review or change any settings.
Destination location:
C:\Program Files\EVS Broadcast Equipment\MediaXChange
< Back
Install
Cancel

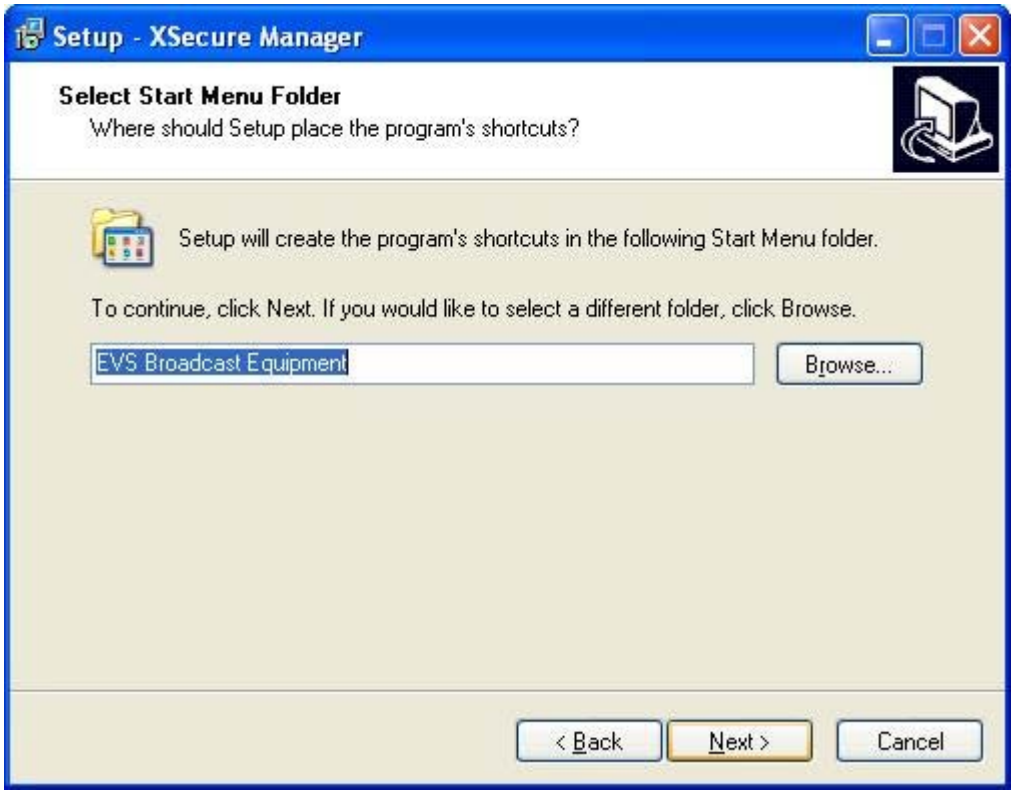
Press INSTALL to begin the installation of MediaXchange and EVSEdit Framework.


Setup - XSecure Manager
Welcome to the XSecure Manager Setup Wizard
This will install XSecure Manager version 1.00.07 on your computer.
It is recommended that you close all other applications before continuing.
Click Next to continue, or Cancel to exit Setup.
Next >
Cancel

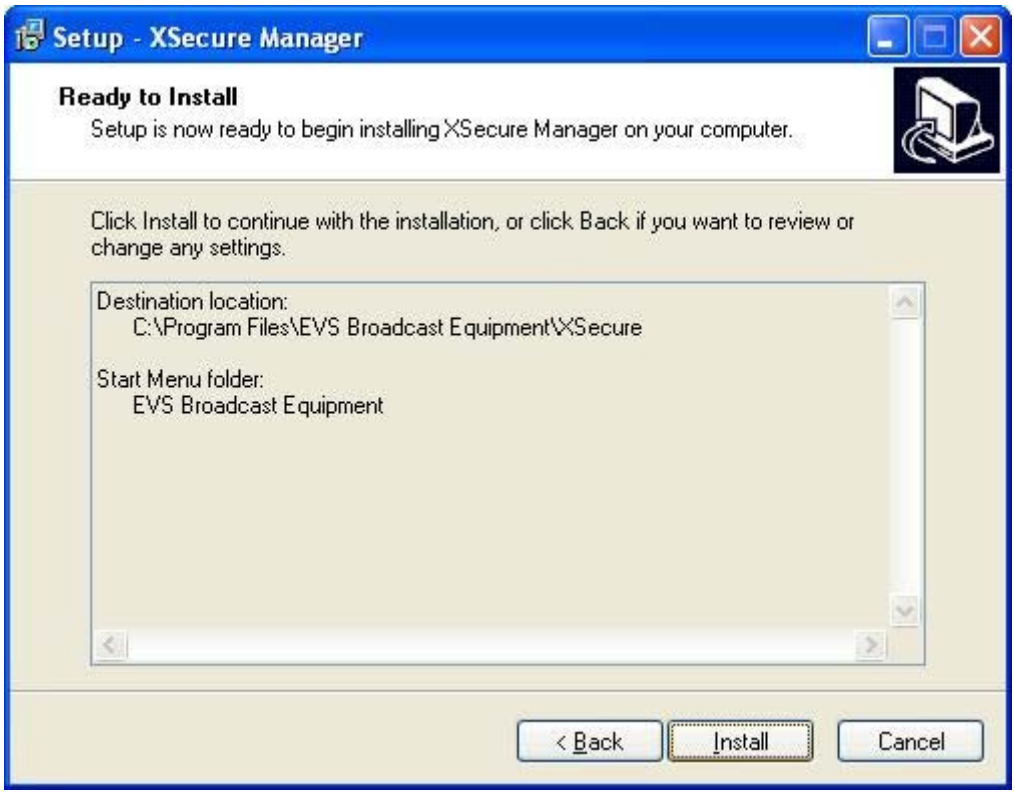
XSecure Manager will be installed now. Press NEXT.

Setup - XSecure Manager
Select Destination Location
Where should XSecure Manager be installed?
Setup will install XSecure Manager into the following folder.
To continue, click Next. If you would like to select a different folder, click Browse.
C:\Program Files\EVS Broadcast Equipment\XSecure
Browse...
At least 2,1 MB of free disk space is required.
< Back
Next >
Cancel

Select the destination directory to install the new software and then press NEXT.


Setup - XSecure Manager
Select Start Menu Folder
Where should Setup place the program's shortcuts?
Setup will create the program's shortcuts in the following Start Menu folder.
To continue, click Next. If you would like to select a different folder, click Browse.
EVS Broadcast Equipment
Browse...
< Back
Next >
Cancel

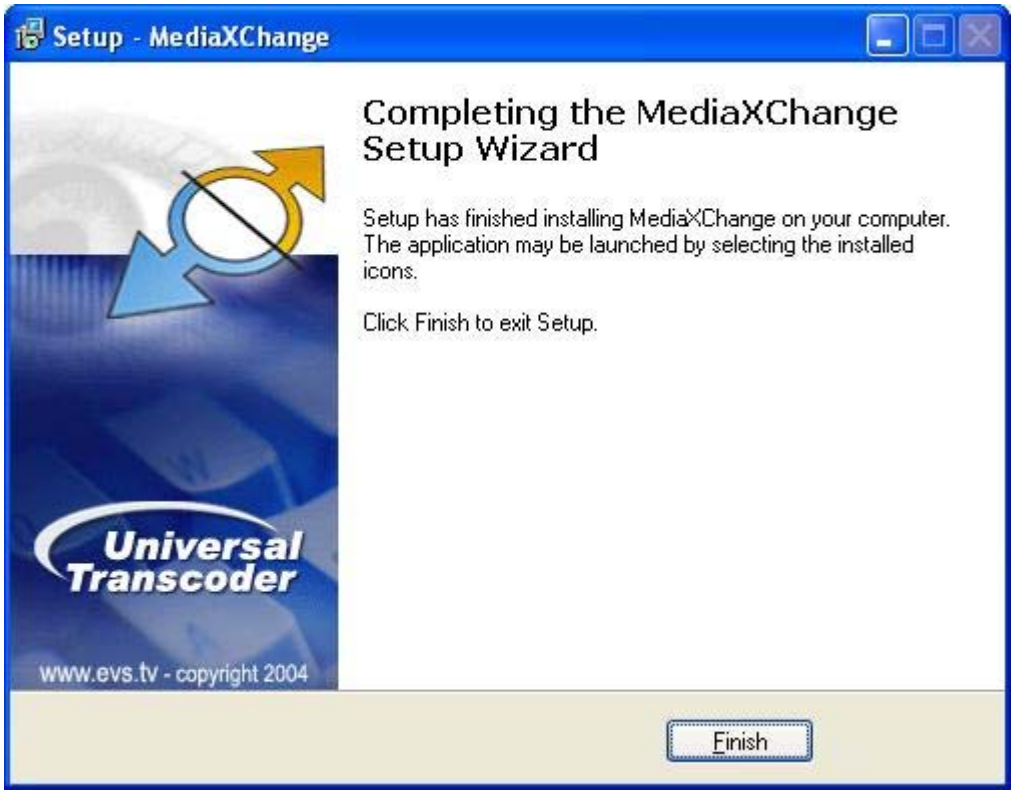
Select the Start Menu Folder for XSecure Manager. Press NEXT.


Setup - XSecure Manager
Ready to Install
Setup is now ready to begin installing XSecure Manager on your computer.
Click Install to continue with the installation, or click Back if you want to review or change any settings.
Destination location:
C:\Program Files\EVS Broadcast Equipment\XSecure
Start Menu folder:
EVS Broadcast Equipment
< Back
Install
Cancel

Press INSTALL to begin the installation.

Setup - XSecure Manager
Completing the XSecure Manager Setup Wizard
Setup has finished installing XSecure Manager on your computer. The application may be launched by selecting the installed icons.
Click Finish to exit Setup.
Finish

The XSecure software installation is successfully completed.


Setup - MediaXChange
Completing the MediaXChange Setup Wizard
Setup has finished installing MediaXChange on your computer. The application may be launched by selecting the installed icons.
Click Finish to exit Setup.
Universal Transcoder
www.evs.tv - copyright 2004
Finish

The MediaXchange software installation is successfully completed. Note that a Shortcut of MediaXChange has been automatically created on the desktop.

DV EXTRA CODEC INSTALLATION

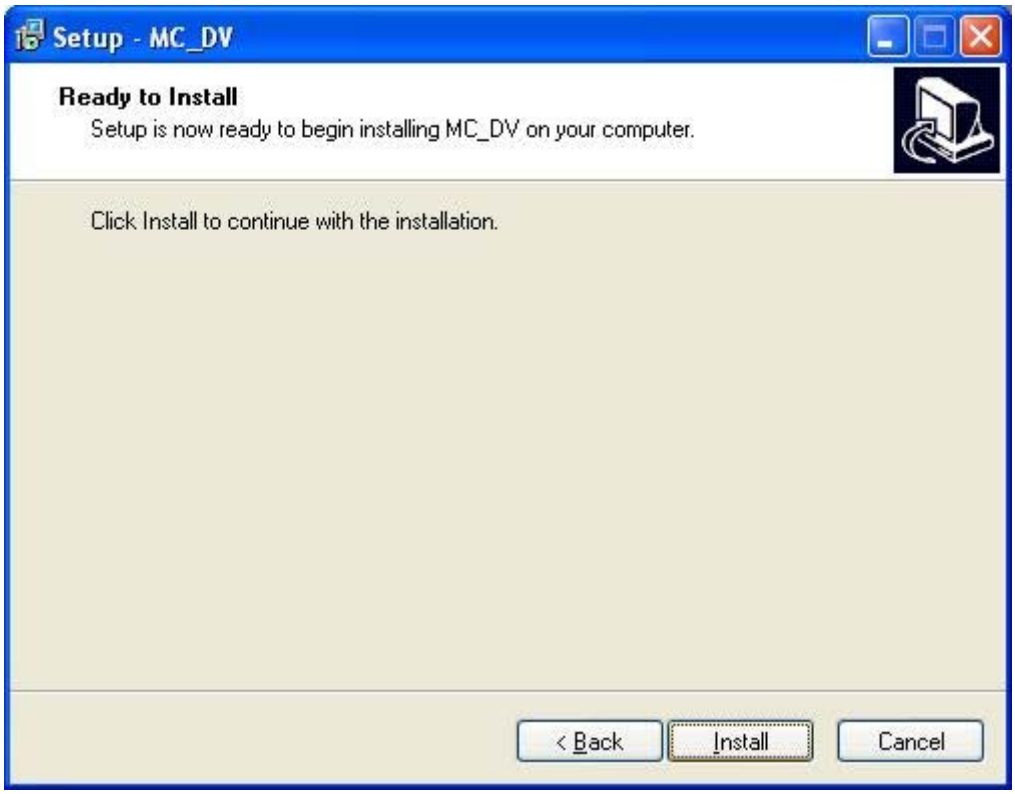
DV Extra Codec is mandatory to decode and encode any DV format.

Please contact the EVS Support to get the installation software.

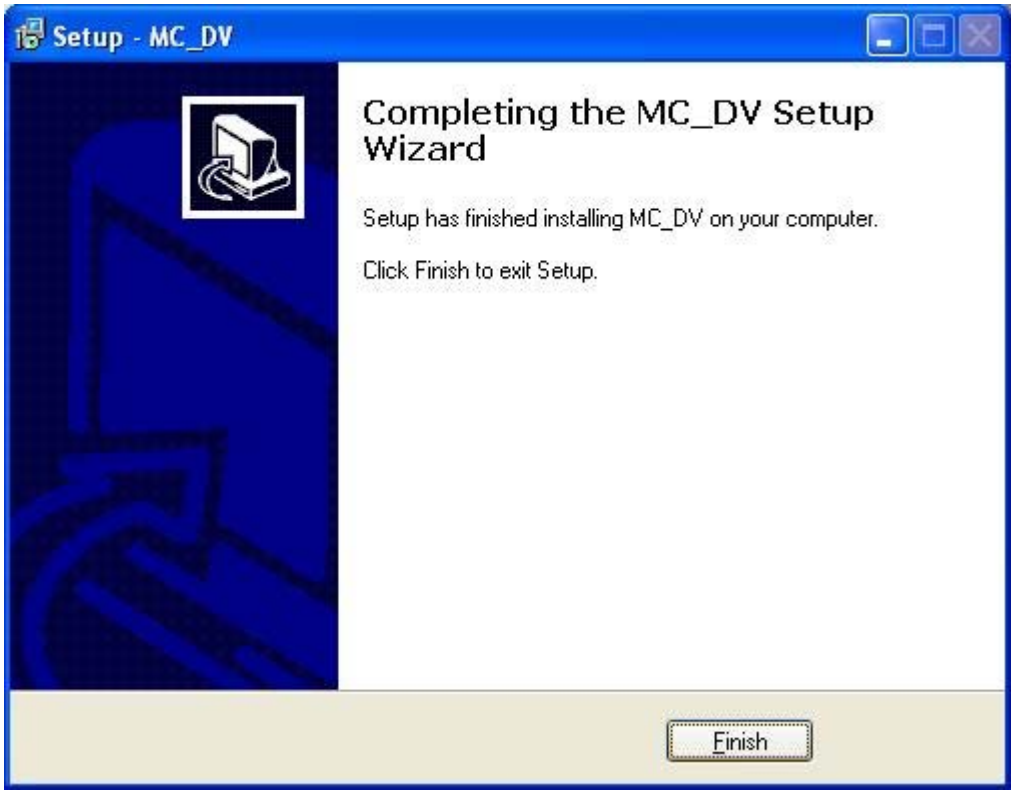
Run DV Extra Codec installshield Install_MC_DV_v6_05_30.exe and then follow the steps of the Setup wizard.

Setup - MC_DV
Welcome to the MC_DV Setup Wizard
This will install MC DV 06.05.30 on your computer.
It is recommended that you close all other applications before continuing.
Click Next to continue, or Cancel to exit Setup.
Next >
Cancel

Press NEXT


Setup - MC_DV
Ready to Install
Setup is now ready to begin installing MC_DV on your computer.
Click Install to continue with the installation.
< Back
Install
Cancel

Press NEXT.


Setup - MC_DV
Completing the MC_DV Setup Wizard
Setup has finished installing MC_DV on your computer.
Click Finish to exit Setup.
Finish

Press FINISH to exit the Setup.

MPEG EXTRA CODEC INSTALLATION

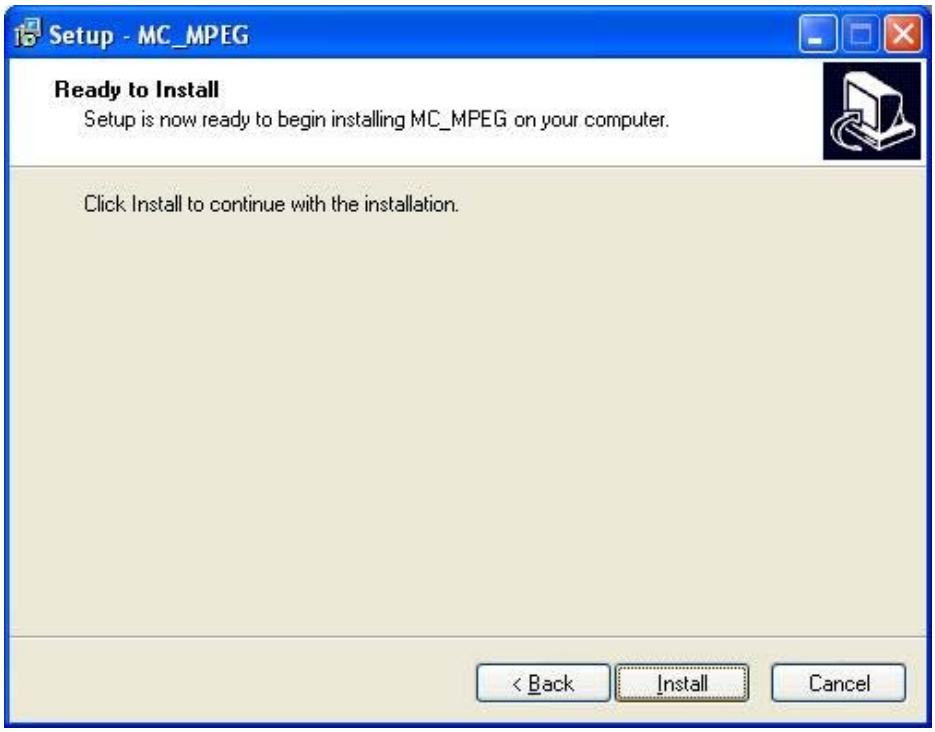
MPEG Extra Codec is mandatory to encode any MPEG format (MPEG-1, MPEG-2, IMX and HDV).

Please contact the EVS Support to get the installation software.

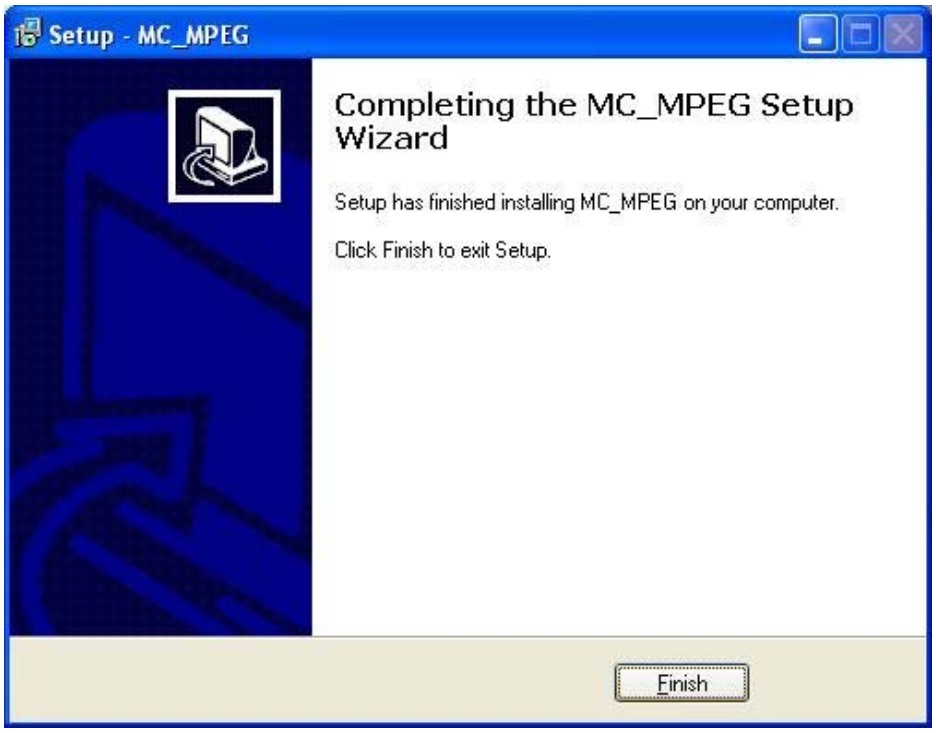
Run DV Extra Codec installshield Install_MC_MPEG_v7_01_29.exe and then follow the steps of the Setup wizard.

Setup - MC_MPEG
Welcome to the MC_MPEG Setup Wizard
This will install MC MPEG 07.01.29 (internal : 03.00.9296) on your computer.
It is recommended that you close all other applications before continuing.
Click Next to continue, or Cancel to exit Setup.
Next >
Cancel

Press NEXT


Setup - MC_MPEG
Ready to Install
Setup is now ready to begin installing MC_MPEG on your computer.
Click Install to continue with the installation.
< Back
Install
Cancel

Press NEXT.


Setup - MC_MPEG
Completing the MC_MPEG Setup Wizard
Setup has finished installing MC_MPEG on your computer.
Click Finish to exit Setup.
Finish

Press FINISH to exit the Setup.

DVCPRO HD EXTRA CODEC INSTALLATION

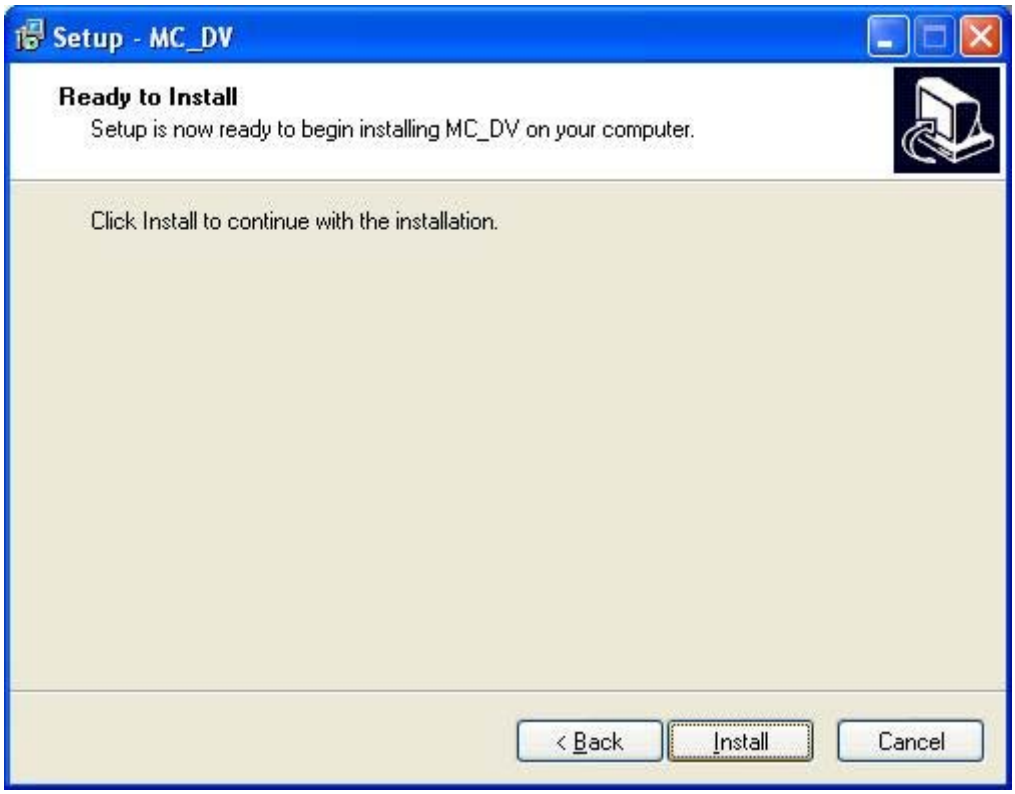
DVCPRO HD Extra Codec is mandatory to decode and encode DVCPRO HD format.

Please contact the EVS Support to get the installation software.

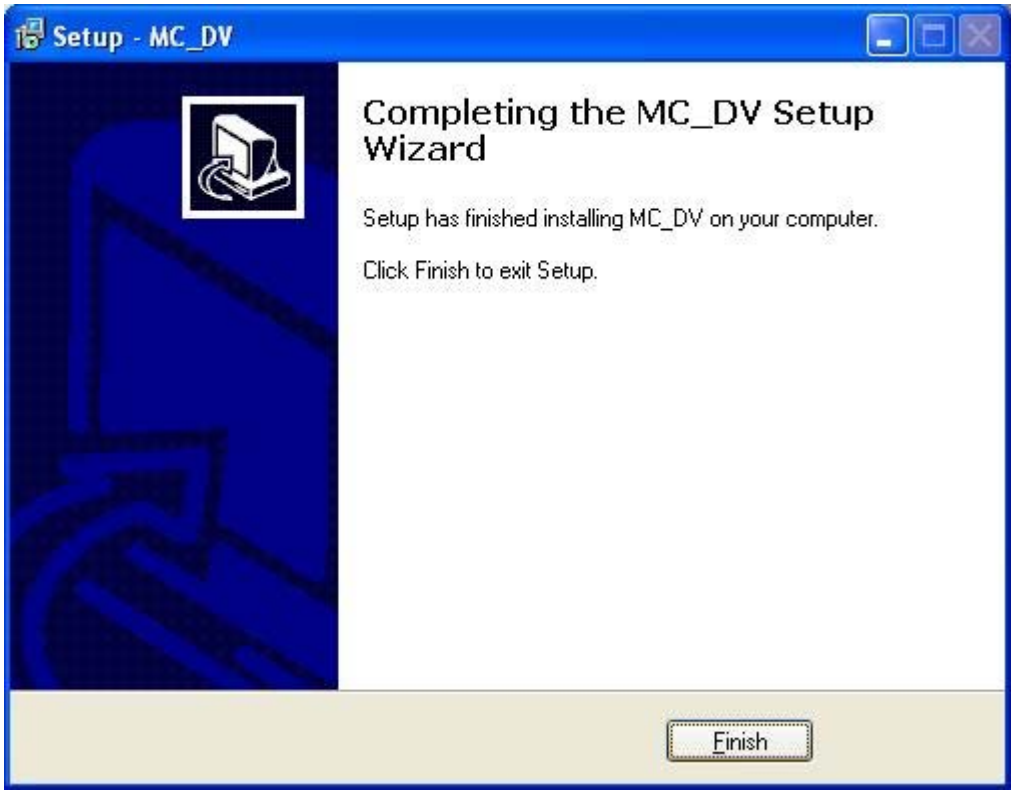
Run DVHD Extra Codec installshield Install_MC_DVHD_v6_05_30.exe and then follow the steps of the Setup wizard.

Setup - MC_DV
Welcome to the MC_DV Setup Wizard
This will install MC DV 06.05.30 on your computer.
It is recommended that you close all other applications before continuing.
Click Next to continue, or Cancel to exit Setup.
Next >
Cancel

Press NEXT


Setup - MC_DV
Ready to Install
Setup is now ready to begin installing MC_DV on your computer.
Click Install to continue with the installation.
< Back
Install
Cancel

Press NEXT.


Setup - MC_DV
Completing the MC_DV Setup Wizard
Setup has finished installing MC_DV on your computer.
Click Finish to exit Setup.
Finish

Press FINISH to exit the Setup.

XSecure License Keys

Since version 1.06.02 of MediaXchange, XSecure is used instead of the Dallas dongle to secure MediaXChange software. XSecure is automatically installed with MediaXchange installshield.

XSecure uses hardware information from the device where MediaXchange is running. This means it is impossible to exchange licenses or codes between devices.

XSecure checks the availability of the key/code when using a specific decoder, encoder or wrapper.

Please refer to the User's Manual of XSecure to

- Start XSecure Manager
- Collect information about your device
- Request a license key to EVS support
- Import new licenses keys

List of the codes vs options

Legend : ABCDEF – XX : Description : 1234 = Item Price, ABCDEF = code Pricelist, XX = code Xsecure

MEDIAXCHANGE SOFTWARE OPTIONS

- **MXCBP – 10 : Base Package** : **mandatory** to run MediaXchange. Manual or automatic conversion of media files. Runs on standard Windows XP Pro Workstation. Media files import and export options must be selected separately

MEDIAXCHANGE IMPORT & DECODING

- **DECMP1 – 20 : MPEG-1 file import & decoding** : Supported file formats : PS (.mpg) or TS (.m2t)
- **DECXDL – 21 : XDCAM LoRes file import & decoding** : Supported format for video : MPEG-4 MXF (.mxf)

- **DECMJP – 23 : EVS MJPEG SD & HD file import & decoding** : compatible with EVS XT series Servers. Supported file formats : MXF EVS (.mxf), Quick Time (.mov)
- **DECMP2 – 24 : MPEG-2 SD file import & decoding** : Long GOP up to 15 Mbps, I-frame up to 50 Mbps with file formats PS (.mpg) or TS (.m2t).
- **DECDVS – 25 : DV Family SD file import & decoding** : Supported file formats : Quick Time (.mov), AVI (.avi), RAW DV (.dv), P2 HiRes (.mxf), XDCAM DV (.mxf). Supported video formats : DVCAM, DV25, DVCPRO25, DVCPRO50
- **DECIMX – 27 : IMX D10 import & decoding**: Compatible with EVS XT series Servers. IMX-30, IMX-40 & IMX-50, with file format MXF EVS (.mxf), MXF OP-1a (.mxf), Quick Time (.mov), XDCAM IMX (.mxf)
- **DECBMP – 28 : Graphic Files import & decoding** : Supported file formats : BMP (.bmp) and TGA (.tga) files for Graphic File Encoding to MJPEG MXF EVS compatible with EVS XT Series Servers (Note : to be associated with RDRMJP – EVS MJPEG export & encoding)
- **DECP2L – 29 : P2 LoRes import & decoding** : Supported format for video : MPEG-4 (.mp4)
- **DECHDV – 31 : HDV import & decoding** *:* Supported file formats : MXF compliant XDCAM HD (.mxf)
- **DECDVH – 32 : DVCPRO HD import & decoding** : Supported file formats : Quick Time (.mov). Supported video formats : 1080i50, 1080i59.94, 720p59.94. Supported horizontal resolutions : native 1440 (1080i50), 1280 (1080i59.94) or 960 (720p59.94).
- **DECDNX – 33 : Avid DNxHD® decoder** : Compatible with EVS XT series Servers and Avid systems. Supported file formats : MXF EVS (.mxf), Quick Time (.mov). Supported levels : low level (120/145 Mbps) and high level (185/220 Mbps). Supported video formats 1080i50, 1080i59.94, 720p59.94.

MEDIAXCHANGE EXPORT & ENCODING

- **RDRMP1 – 40 : MPEG-1 encoding** : Supported file formats : PS (.mpg) or TS (.m2t)
- **RDRMP4 – 41 : MPEG-4 encoding** : Supported file format : Windows Media (.wmv) with MPEG-4 for video
- **RDRWM – 42 : Windows Media Family encoding** : Supported file format : Windows Media (.wmv) with WM7, WM8 & WM9 for video
- **RDRMJP – 43 : EVS MJPEG SD & HD encoding** : compatible with EVS XT series Servers. Supported file formats : MXF EVS (.mxf), Quick Time (.mov)
- **RDRMP2 – 44 : MPEG-2 SD encoding** : Long GOP up to 15 Mbps, I-frame up to 50 Mbps with file formats PS (.mpg) or TS (.m2t).
- **RDRDVS – 45 : DV SD Family encoding** : Supported file formats : Quick Time (.mov), AVI (.avi), RAW DV (.dv), P2 HiRes (.mxf), XDCAM DV (.mxf). Supported video formats : DVCAM, DV25, DVCPRO25, DVCPRO50
- **RDRIMX – 47 : IMX D10 encoding**: Compatible with EVS XT series Servers. IMX-30, IMX-40 & IMX-50, with file format MXF EVS (.mxf), MXF OP-1a (.mxf), Quick Time (.mov), XDCAM IMX (.mxf)
- **RDRHDV – 51 : HDV encoding** : Supported file formats : MXF compliant XDCAM HD (.mxf). Only 2 audios supported.

- **RDRDVH – 52 : DVCPRO HD encoding** : Supported file formats : Quick Time (.mov). Supported video formats : 1080i50, 1080i59.94, 720p59.94. Supported horizontal resolutions : 1920 (1080i) or 1280 (720p) (with automatic downsampling to native resolutions.
- **RDRDNX – 53 : Avid DNxHD® encoder** : Compatible with EVS XT series Servers and Avid systems. Supported file formats : MXF EVS (.mxf), Quick Time (.mov). Supported levels : low level (120/145 Mbps) and high level (185/220 Mbps). Supported video formats 1080i50, 1080i59.94, 720p59.94.

MEDIAXCHANGE NLE INTERFACE

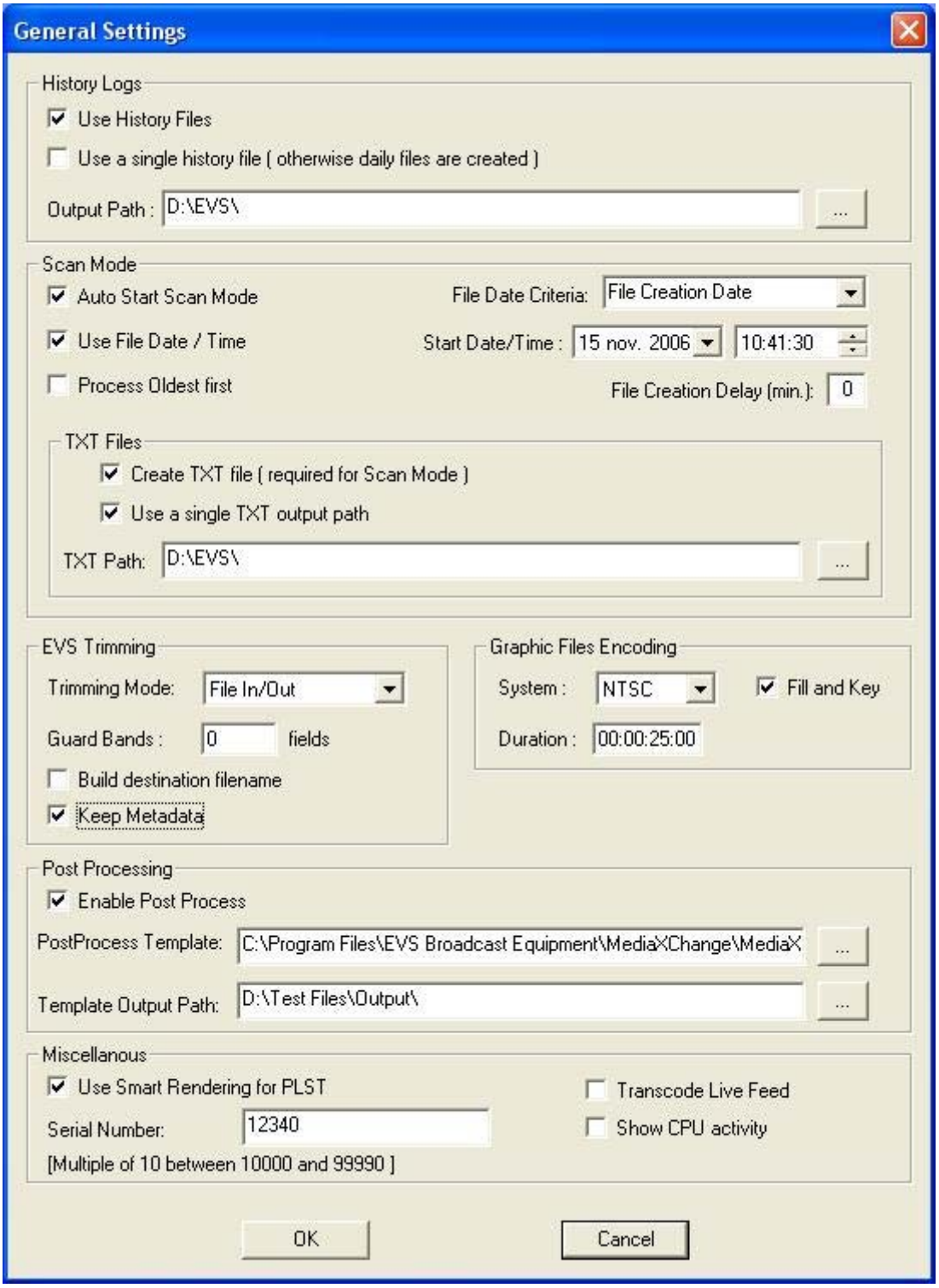
- **MXCVEL – 60 : Interface with Leitch Velocity NLE SD (standard definition 625i/525i)** : Export MJPEG MXF EVS (.mxf) files from EVS XT Series Servers to MJPEG DPS (.dps & .dva) for Leitch Velocity NLE. Export MJPEG DPS Leitch Velocity files (.dps & .dva) to MJPEG MXF EVS (.mxf). Native file interface (no decoding nor decoding during import/export).
- **MXCFCS – 62 : Interface with Apple Final Cut Pro SD (standard definition 625i/525i)** : Export MJPEG or IMX MXF EVS (.mxf) files from EVS XT Series Servers to MJPEG-A or IMX Quick Time (.mov & .xml) for Apple Final Cut Pro NLE. Export MJPEG-A or IMX Quick Time from Apple Final Cut Pro files (.mov) to MJPEG or IMX MXF EVS (.mxf). Native file interface (no decoding nor decoding during import/export).
- **MXCFCH – 63 : Interface with Apple Final Cut Pro HD (high definition 720p60, 1080i50, 1080i60)** : Export MJPEG MXF EVS (.mxf) files from EVS XT Series Servers to MJPEG-A Quick Time (.mov & .xml) for Apple Final Cut Pro NLE. Export MJPEG-A Quick Time from Apple Final Cut Pro files (.mov) to MJPEG MXF EVS (.mxf). Native file interface (no decoding nor decoding during import/export). Compatible with files from EVS XT[2] Servers only !
- **MXCAVS – 64 : Interface with Avid NLE SD (standard definition 625i/525i)** : Export IMX MXF EVS (.mxf) files from EVS XT Series Servers to IMX MXF OP-1a (.mxf) for Avid NLE (e.g. Media Composer Adrenaline). Export IMX MXF OP-1a (.mxf) for Avid NLE (e.g. Media Composer Adrenaline) to IMX MXF EVS (.mxf). Native file interface (no decoding nor decoding during import/export). Compatible with files from EVS XT[2] Servers only !
- **MXCAVH – 65 : Interface with Avid NLE HD (high definition 720p59.94, 1080i50, 1080i59.94)** *:* Export Avid DNxHD® Codec MXF EVS (.mxf) files from EVS XT Series Servers to Avid DNxHD® Codec Quick Time (.mov) for Avid NLE (e.g. Media Composer Adrenaline). Export Avid DNxHD® Codec Quick Time (.mov) for Avid NLE (e.g. Media Composer Adrenaline) to Avid DNxHD® Codec MXF EVS (.mxf). Native file interface (no decoding nor decoding during import/export). Compatible with files from EVS XT[2] Servers only !

System Configuration

The system configuration is available for modifications from "Tools" menu.

Two levels of configuration are defined : General Settings and Codecs Settings.

General Settings



HISTORY LOGS

Use History Files :
Select this option to generate history files. History file is a kind of as-run log which logs for each job the date and time of the start and the end of the process, the type of conversion, the source file and the destination file.

Use a single history file :
Select this option for merging all the history logs into a single file. Otherwise, daily files are generated.

Output Path :
The Output Path defines the path where the History Files are stored. The path can be modified manually or by browsing the folders. If no path is defined, the files will be stored in the current directory of MediaXchange software (typically C:\Program Files\EVS Broadcast Equipment\MediaXchange\).

SCAN MODE

Auto Start Scan Mode :
Check this option to automatically start the scan mode after the launch of MediaXchange application. See Scan mode for additional information.

Use File Date/Time :
Select this option to use the Date/Time criteria. Otherwise scan mode will automatically scan the given directory without taking into account of the date and time of the file and workstation (see section "Conversion Criteria").

- File Date Criteria :Scan Mode scans files in directories and the decision of conversion is based on several criteria. One of the criteria is based on the Windows properties of the file to be converted. Select either File Creation Date or File Modification Date.

Tip : *as XFile can update metadata information after backuped EVS MXF file, the modification date can change really often. In order to avoid untimely file conversion, it is advised to select this option.*

- Start Date/time : Choose the date by browsing the Windows

calendar. Time is related to Windows time. Check the format is well 24h and not 12h AM/PM.

- Delay (min.) : Typical value : 0

See conversion criteria defined below to setup correctly these Timing parameters.

MISCELLANEOUS

Process oldest first :

Check this option to start with the oldest file to be scanned in the directory, otherwise alphabetic order is taken into account

TXT FILES

Create TXT File :

Select this option to generate a .txt file. This option must be selected in SCAN mode to work properly.

This TXT file contains all the information related to the successive conversions applied to the related source file.

Use a Single TXT Output Path :

Check this option to use the TXT path defined below.

TXT Path :

Browse and select the path where TXT file will be stored. If no path is defined, the TXT file will be located in the same directory as for the data file.

Example of TXT File :

```
[M2005/07/13 16:23:44 (Mpeg)]

STATUS          = Terminated
MACHINE         = DVBCLIENT1057
SOURCE PATHNAME = C:\test050712\source\PAL_3.mxf
DEST PATHNAME   = C:\test050712\mpeg2\PAL_3.m2t
STARTDATETIME   = 13/07/2005 16:23:44
STOPDATETIME    = 13/07/2005 16:24:12
CODEC           = Mpeg
SETTINGS        = <EVSEncoderCfg> <VType>MPEG-2</VType>
<FType>TS</FType> <GopN>2</GopN> <GopM>1</GopM>
<VRate>15000000</VRate> <ARate>256000</ARate>
```

```
<Stereo>1</Stereo>
<InitialTC>00:00:11.20</InitialTC></EVSEncoderCfg>

[M2005/07/13 16:24:21 (EVS XT to QuickTime)]

STATUS          = Terminated
MACHINE         = DVBCLIENT1057
SOURCE PATHNAME = C:\test050712\source\PAL_3.mxf
DEST PATHNAME   = C:\test050712\mpeg2\PAL_3.mov
STARTDATETIME   = 13/07/2005 16:24:21
STOPDATETIME    = 13/07/2005 16:24:30
CODEC           = EVS XT to QuickTime
SETTINGS        =

[M2005/07/13 16:24:34 (EVS XT to Leitch Velocity)]

STATUS          = Terminated
MACHINE         = DVBCLIENT1057
SOURCE PATHNAME = C:\test050712\source\PAL_3.mxf
DEST PATHNAME   = C:\test050712\mpeg2\PAL_3.dps
STARTDATETIME   = 13/07/2005 16:24:34
STOPDATETIME    = 13/07/2005 16:24:43
CODEC           = EVS XT to Leitch Velocity
SETTINGS        =

[M2005/07/13 16:24:49 (DVC Pro)]

STATUS          = Terminated
MACHINE         = DVBCLIENT1057
SOURCE PATHNAME = C:\test050712\source\PAL_3.mxf
DEST PATHNAME   = C:\test050712\mpeg2\PAL_3.mov
STARTDATETIME   = 13/07/2005 16:24:49
STOPDATETIME    = 13/07/2005 16:25:07
CODEC           = DVC Pro
SETTINGS        = <EVSEncoderCfg> <VRate>25000000</VRate>
<VType>DVCPro</VType> <FType>MOV</FType>
<InitialTC>00:00:11.20</InitialTC></EVSEncoderCfg>
```

EVS TRIMMING

Trimming Mode : (See XFile User's Manual for boundaries definitions)

- File In/Out : The whole MXF file is converted
- In/Out: Only data between In & Out points are converted
- Clip In/Out : Only data between Short In and Short Out (also known as Mark In & Mark out) are converted

Guard Bands :
This value represents the guard band added before and after the values selected in above Trimming Mode.

Build Destination File Name :
Select this option to rename the destination file following the structure %clipName_%LSMID.mxf

Keep Metadata :
Check this option to keep the metadata when transcoding MJPEG to IMX and vice versa with wrappers as EVS MXF formats. Metadata stored in the from the EVS MXF source file will be copied into the EVS MXF destination file.

GRAPHIC FILES ENCODING

Those settings are related to the generation of an EVS MXF files from a bitmap (BMP, TIFF & TGA formats). To be used with any encoder : MJPEG, IMX-D10, etc.

System
Select either Pal or NTSC

Duration :
Select the duration (only valid for source still picture, not source animated sequences)

Fill & Key :
Generation of 2 synchronous files based on Alpha Channel : one content Fill sequence and one Key sequence.

POST PROCESSING

This option is used to generate a post processing job at the end of the conversion. For example, this XML file could control EVS Xfile to automatically restore an EVS MXF clip to EVS XT server.

Enable Post Process :
Select this option to generate an XML file after the completion of a job.

PostProcess Template :
This is the default .tpl file used to generate the XML file. Normally MediaXchange scans the job directory to find a template to use. Otherwise, this default template is used. The template must be edited

accordingly. In case of restore to XT via Xfile, please refer to the document XFile XML Jobs v1.07.00.pdf for information about this XML structure. An example of template for automatic restore is available in C:\Program Files\EVS Broadcast Equipment\mediaxchange.tpl. This file is shown below for info :

```
##GEN_ID####ID_1##
<?xml version="1.0"?>
<EVS_XFile_Job_List>
      <EVS_XFile_Job>
            <Job_Id>12384</Job_Id>
            <Job_Creation_Time>0</Job_Creation_Time>
            <Job_Type>2</Job_Type>
            <Job_Src_File>##OUTPUT_FILE##</Job_Src_File>
            <Job_Dest_Id>##ID_1##</Job_Dest_Id>
            <Job_Dest_User_Nb>10</Job_Dest_User_Nb>
      <Job_Dest_ClipName>##INPUT_FILE_NAME##</Job_Dest_ClipNa
me>
      </EVS_XFile_Job>
</EVS_XFile_Job_List>
```

Template Output Path :
Browse and select the location where to put the XML file for Post Processing. In case of XFile control, you must select the UNC path of the Xfile device \XFile_XML\Jobs_Incoming\.

MISCELLANEOUS

Use Smart Rendering for PLST :
Select this option to only transcode content that must be rendered in a PLST sequence. See Clean Edit User's Manual for information about Smart Rendering.

Serial Number :
This is the Serial Number associated with the generation of an EVS MXF file. The value must be a multiple of 10 and the range between 10000 and 99990 to be compliant with EVS Multicam.

Transcode Live Feed :
Select this option to start the wrapping/encoding process during the record of a source file. This option does not work with the wrapping of Quick Time File. If you use it anyway with the wrapping of Quick Time file, MediaXchange will wait the end of the writing of the Quick Time file before doing is wrapping job.

Show CPU Activity
This option MAY NOT be selected !

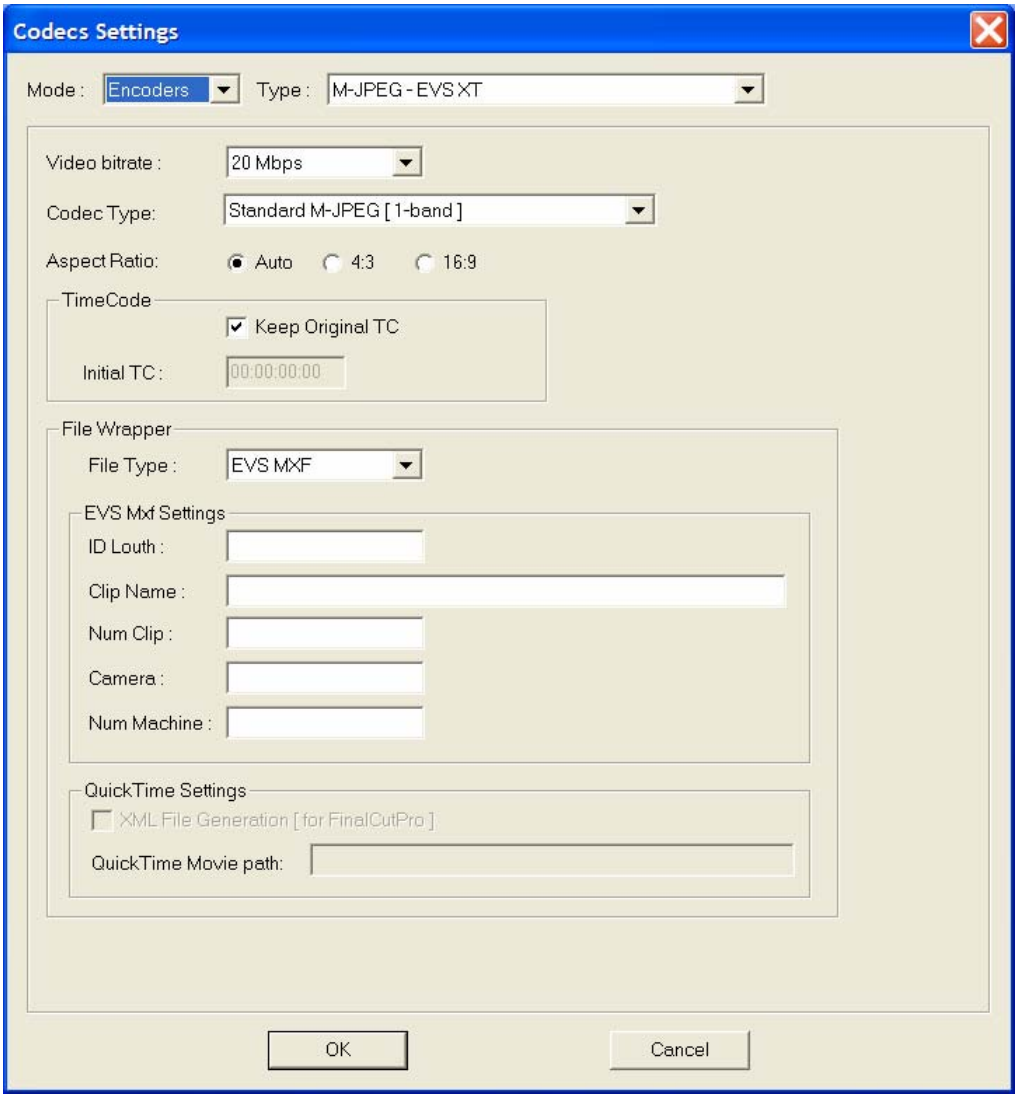
Codec Settings

Codec settings refer to the "encoder" or "wrapper" modes settings.

MODE : ENCODERS

The "Encoders" mode defines the parameters of the encoder. The decoding process is automatic, provided that the file format is supported by the version of MediaXchange.

M-JPEG - EVS XT



Video Bitrate :

Choose the value among 20, 25, 30, 35, 40, 45 & 50 Mbps for SD and 100 & 150 Mbps for HD. *Those values can be modified in the CodecValues file located in the directory C:\Program Files\EVS Broadcast Equipment\MediaXchange.*

Codec Type :

- *Standard M-JPEG (1-band)* : Standard MJPEG encoder, valid for SD and HD formats.
- *EVS HD M-JPEG (4-band)* : EVS proprietary MJPEG format in HD only. Also called "4-band" M-JPEG.
- *Half-resolution M-JPEG* : Special setting developed for the project

World Cup 2006. This option encodes SD frame by keeping 1 field over the two fields of a frame. ***Please contact EVS staff in order to use this configuration properly.***

Aspect Ratio :

- Automatic : the aspect ratio will be automatically selected following the information available in the source file
- 4:3 : to force to 4:3 aspect ratio
- 16:9 : to force to 16:9 aspect ratio

TimeCode :

- Keep Original TC : Select this option to keep the original TC included in the source file.
- Initial TC : Enter the value of the first TC put in the file to be converted.

File Wrapper :

Select either :

- EVS MXF : the wrapper will be the EVS MXF proprietary format
- Quick Time : the wrapper will be Quick Time, compatible with Apple Final Cut Pro

- *EVS MXF Settings :*

Those parameters are metadata associated with the EVS MXF file to be used into XFile and XT server. Default values are set if the parameters are left blank.

  - ID Louth : Enter the ID Louth
  - Clip Name : Enter the clip name string
  - Num clip : Enter a clip ID
  - Camera : Enter a camera value among A, B, C, D, E & F.
  - Num Machine : Enter the ID of the device on SDTI network

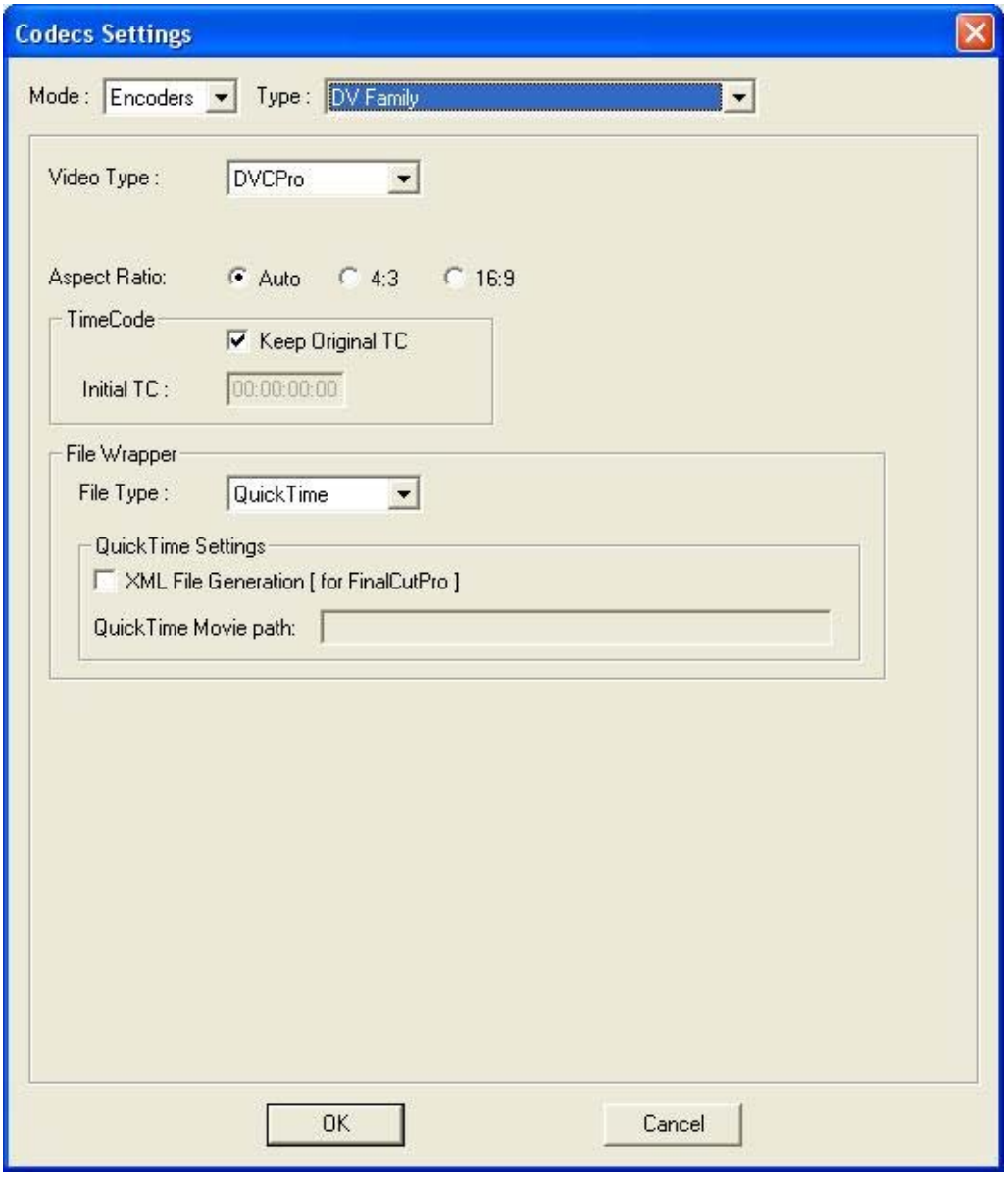
- *Quick time Settings :*

  - XML File Generation : Check this option to create a XML file along with the Quick Time file. Dedicated to the XML import

in Final Cut Pro. Note that in case of encoders, no metadata (except TC) can be transferred (in contrary to wrappers).

- Quick time Movie Path : The UNC of the destination path of the Quick Time file must be specified. The XML import does not use relative links.

DV FAMILY



Video Type

Choose among DV, DVCPRO and DVCPRO50. Only valid for SD formats !

Aspect Ratio :

- Automatic : the aspect ratio will be automatically selected following the information available in the source file
- 4:3 : to force to 4:3 aspect ratio
- 16:9 : to force to 16:9 aspect ratio

TimeCode :

- Keep Original TC : Select this option to keep the original TC included in the source file.
- Initial TC : Enter the value of the first TC put in the file to be converted.

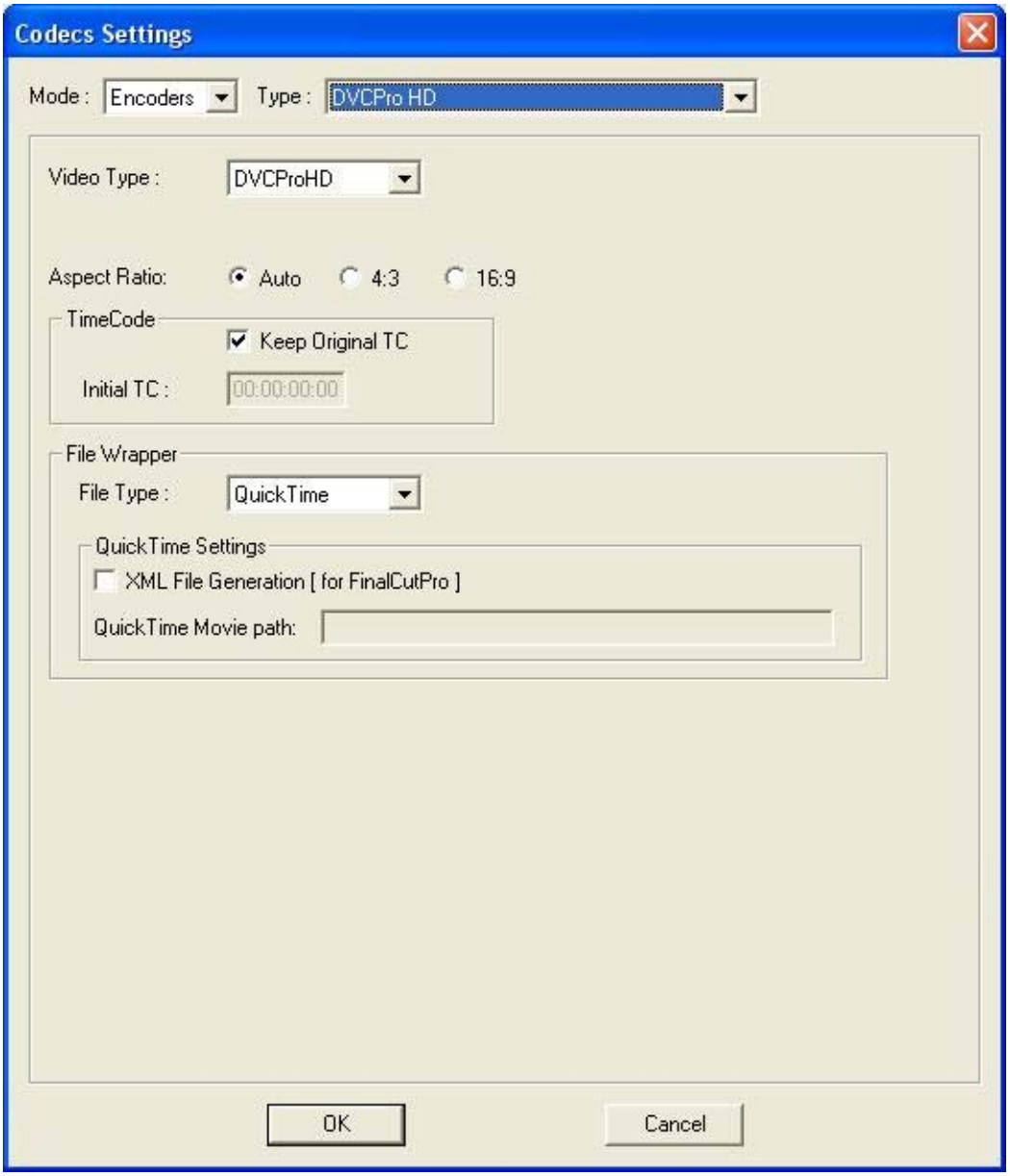
File Wrapper :

Select either :

- Raw : select this format for raw DV (extension.dv)
- Quick Time : select this format for Quick Time format (extension .mov)
- AVI : select this format for Video for Windows AVI (extension .avi)
- XDCAM : select this format in order to generate DVCAM into XDCAM format (extension .mxf)
- P2 : select this format in order to generate P2 file format structure.

- *Quick time Settings :*
    - XML File Generation : Check this option to create a XML file along with the Quick Time file. Dedicated to the XML import in Final Cut Pro. Note that in case of encoders, no metadata (except TC) can be transferred (in contrary to wrappers).
    - Quick time Movie Path : The UNC of the destination path of the Quick Time file must be specified. The XML import does not use relative links.

DVCPRO HD



Video Type :
Only DVCPRO HD is available

Aspect Ratio :

- Automatic : the aspect ratio will be automatically selected following the information available in the source file
- 4:3 : to force to 4:3 aspect ratio
- 16:9 : to force to 16:9 aspect ratio

TimeCode :

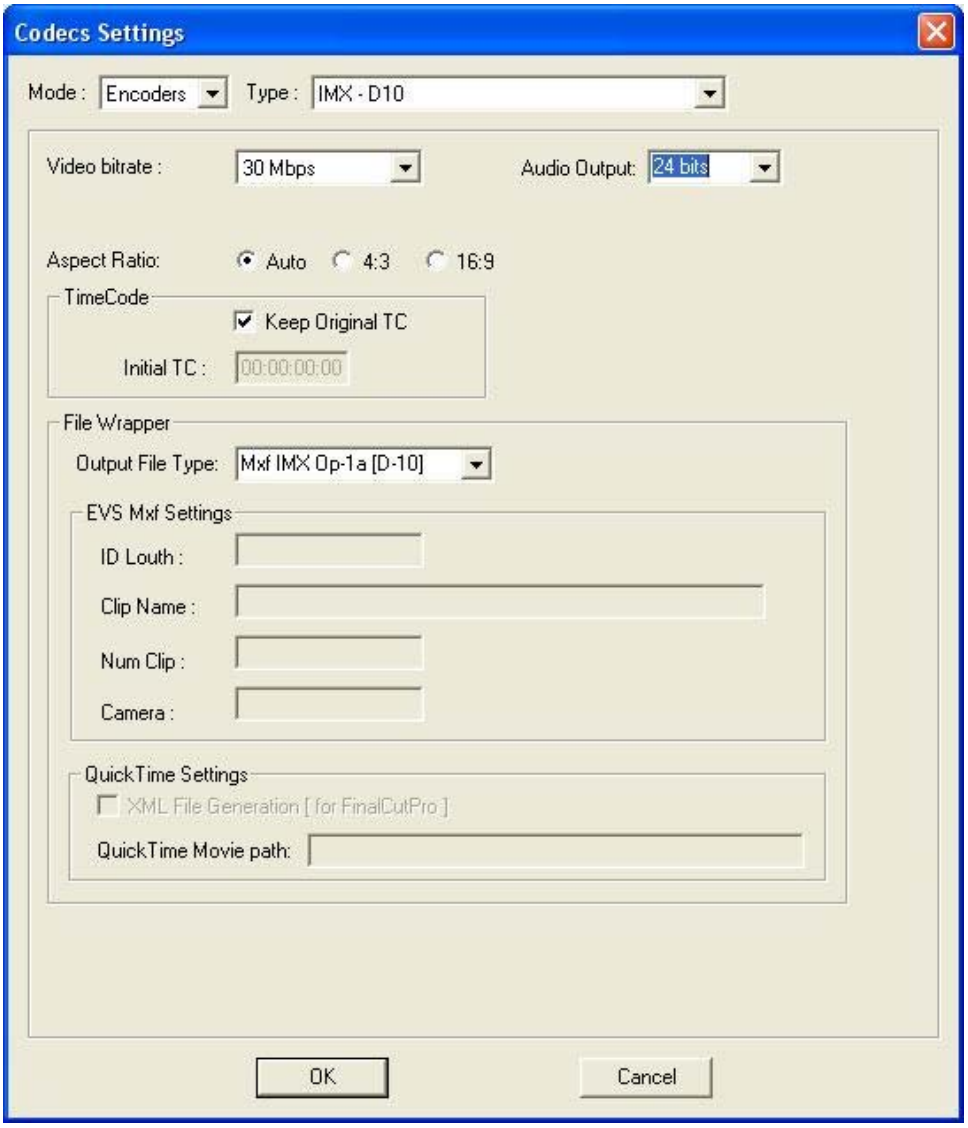
- Keep Original TC : Select this option to keep the original TC included in the source file.
- Initial TC : Enter the value of the first TC put in the file to be converted.

File Wrapper :

Only Quick Time Movie (.mov) is available (developed for Final Cut Pro only).

- *Quick time Settings :*
    - XML File Generation : Check this option to create a XML file along with the Quick Time file. Dedicated to the XML import in Final Cut Pro. Note that in case of encoders, no metadata (except TC) can be transferred (in contrary to wrappers).
    - Quick time Movie Path : The UNC of the destination path of the Quick Time file must be specified. The XML import does not use relative links.

IMX – D10



Video Bitrate :
Select the video bitrate among 30, 40 & 50 Mbps

Audio Output : ***Only valid for the MXF OP-1a file format***.

- 24 bits : XDCAM mode 4 audios/24 bits.
- 16 bits : XDCAM mode 8 audios/16 bits.

Aspect Ratio :

- Automatic : the aspect ratio will be automatically selected following the information available in the source file

- 4:3 : to force to 4:3 aspect ratio
- 16:9 : to force to 16:9 aspect ratio

TimeCode :

- Keep Original TC : Select this option to keep the original TC included in the source file.
- Initial TC : Enter the value of the first TC put in the file to be converted.

File Wrapper :

Select either :

- EVS MXF : the wrapper will be the EVS MXF proprietary format
- Mxf IMX OP-1a [D-10] : the wrapper will be IMX MXF OP-1a, compatible with XDCAM & Avid
- Quick Time : the wrapper will be Quick Time, compatible with Apple Final Cut Pro

- *EVS MXF Settings :*

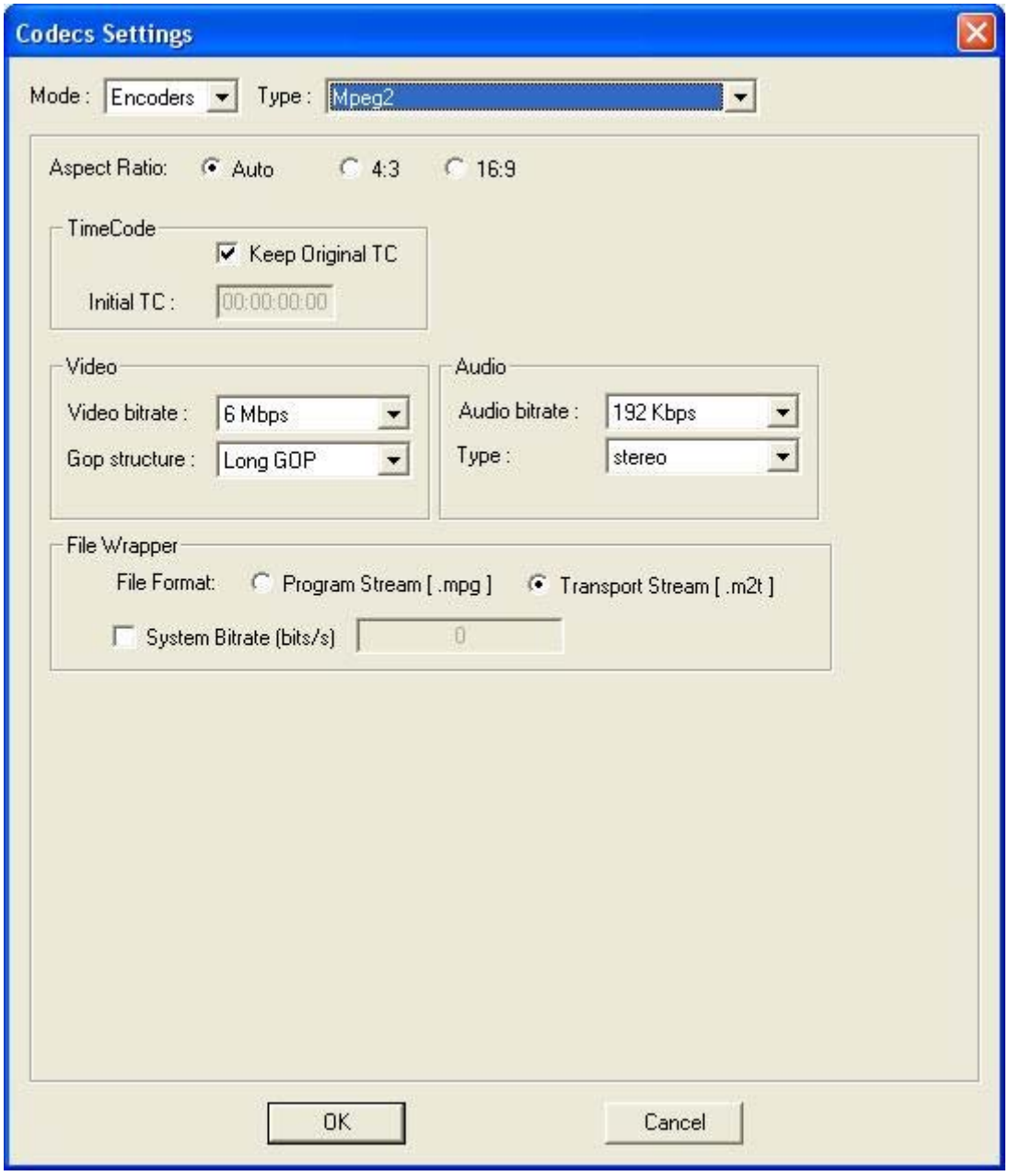
Those parameters are metadata associated with the EVS MXF file to be used into XFile and XT server. Default values are set if the parameters are left blank.

  - ID Louth : Enter the ID Louth
  - Clip Name : Enter the clip name string
  - Num clip : Enter a clip ID
  - Camera : Enter a camera value among A, B, C, D, E & F.

- *Quick time Settings :*

  - XML File Generation : Check this option to create a XML file along with the Quick Time file. Dedicated to the XML import in Final Cut Pro. Note that in case of encoders, no metadata (except TC) can be transferred (in contrary to wrappers).
  - Quick time Movie Path : The UNC of the destination path of the Quick Time file must be specified. The XML import does not use relative links.

MPEG-2



Aspect Ratio :

- Automatic : the aspect ratio will be automatically selected following the information available in the source file
- 4:3 : to force to 4:3 aspect ratio
- 16:9 : to force to 16:9 aspect ratio

TimeCode :

- Keep Original TC : Select this option to keep the original TC included in the source file.
- Initial TC : Enter the value of the first TC put in the file to be converted.

Video

- Video Bitrate : Choose among 3, 4, 5, 6, 7, 8, 9, 10, 12, 15 Mbps for 4:2:0 MPEG-2. *Those values can be modified in the CodecValues file located in the directory C:\Program Files\EVS Broadcast Equipment\MediaXchange.*
- GOP Structure :
    - I-Frame : GOP of length 1, only frame are encoded
    - I-P GOP : GOP of length 2 of type IP
    - Long GOP : GOP of length 12 of type IBBPBBPBBPBBP

Audio

- Audio Bitrate : Choose among 64, 96, 112, 128, 160, 192, 224, 296, 320, 384 Kbps.
- Type : Choose between mono or stereo

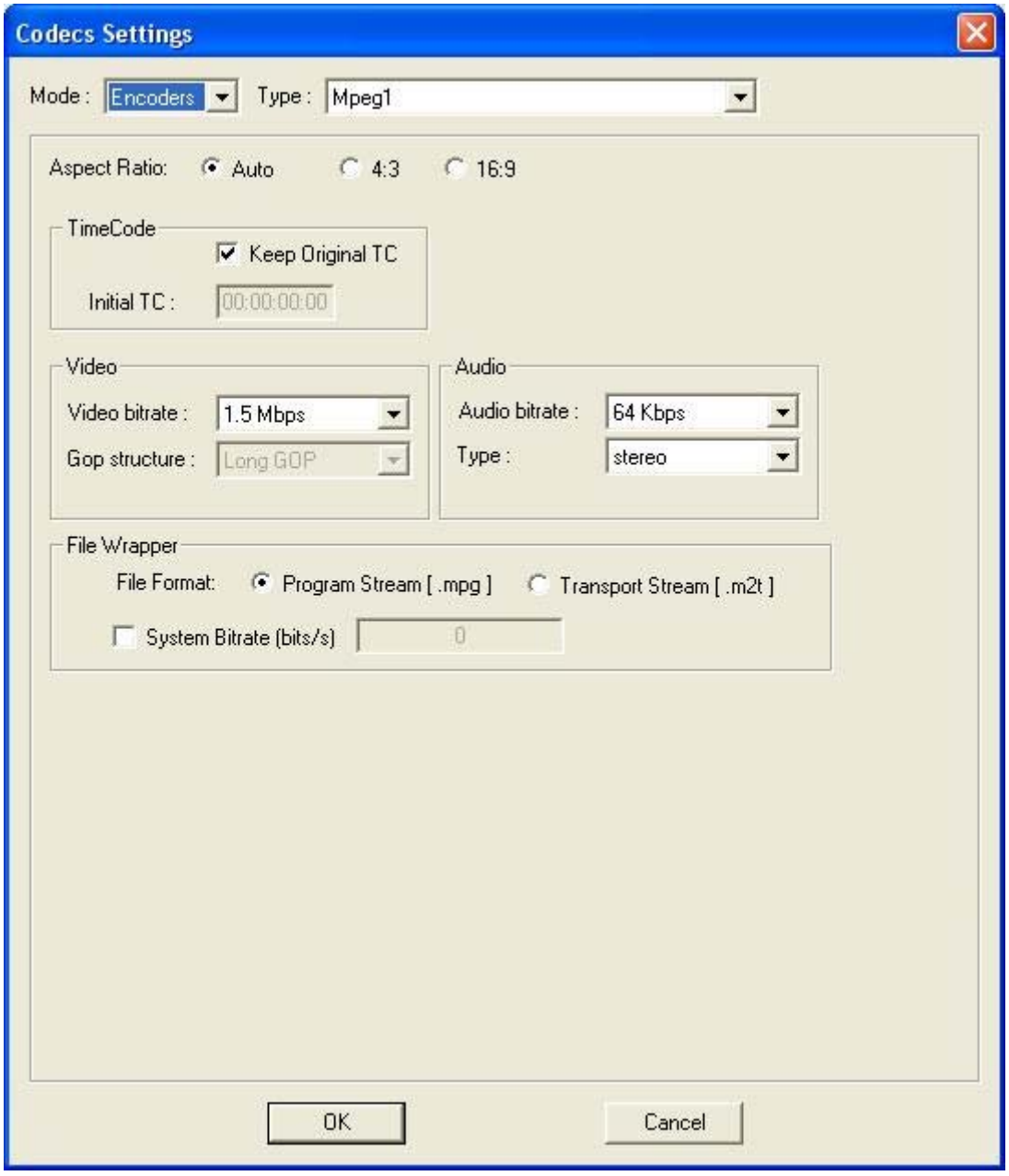
File Wrapper :

Select either :

- Program Stream : the wrapper will be a Program stream (PS) (.mpg) format
- Transport Stream : the wrapper will be a Transport stream TS) (.m2t) format

System Bitrate : Select to specify the system bitrate in bits/s If not selected, the encoder will automatically add stuffing accordingly.

MPEG-1



Aspect Ratio :

- Automatic : the aspect ratio will be automatically selected following the information available in the source file
- 4:3 : to force to 4:3 aspect ratio
- 16:9 : to force to 16:9 aspect ratio

TimeCode :

- Keep Original TC : Select this option to keep the original TC included in the source file.
- Initial TC : Enter the value of the first TC put in the file to be converted.

Video

- Video Bitrate : Choose among 500, 800 Kbps, 1.0, 1.5, 2.0 & 3.0 Mbps. *Those values can be modified in the CodecValues file located in the directory C:\Program Files\EVS Broadcast Equipment\MediaXchange.*
- GOP Structure : Fixed Long GOP of length 12 (type IBBPBBPBBPBBP)

Audio

- Audio Bitrate : Choose among 64, 96, 112, 128, 160, 192, 224, 296, 320, 384 Kbps.
- Type : Choose between mono or stereo

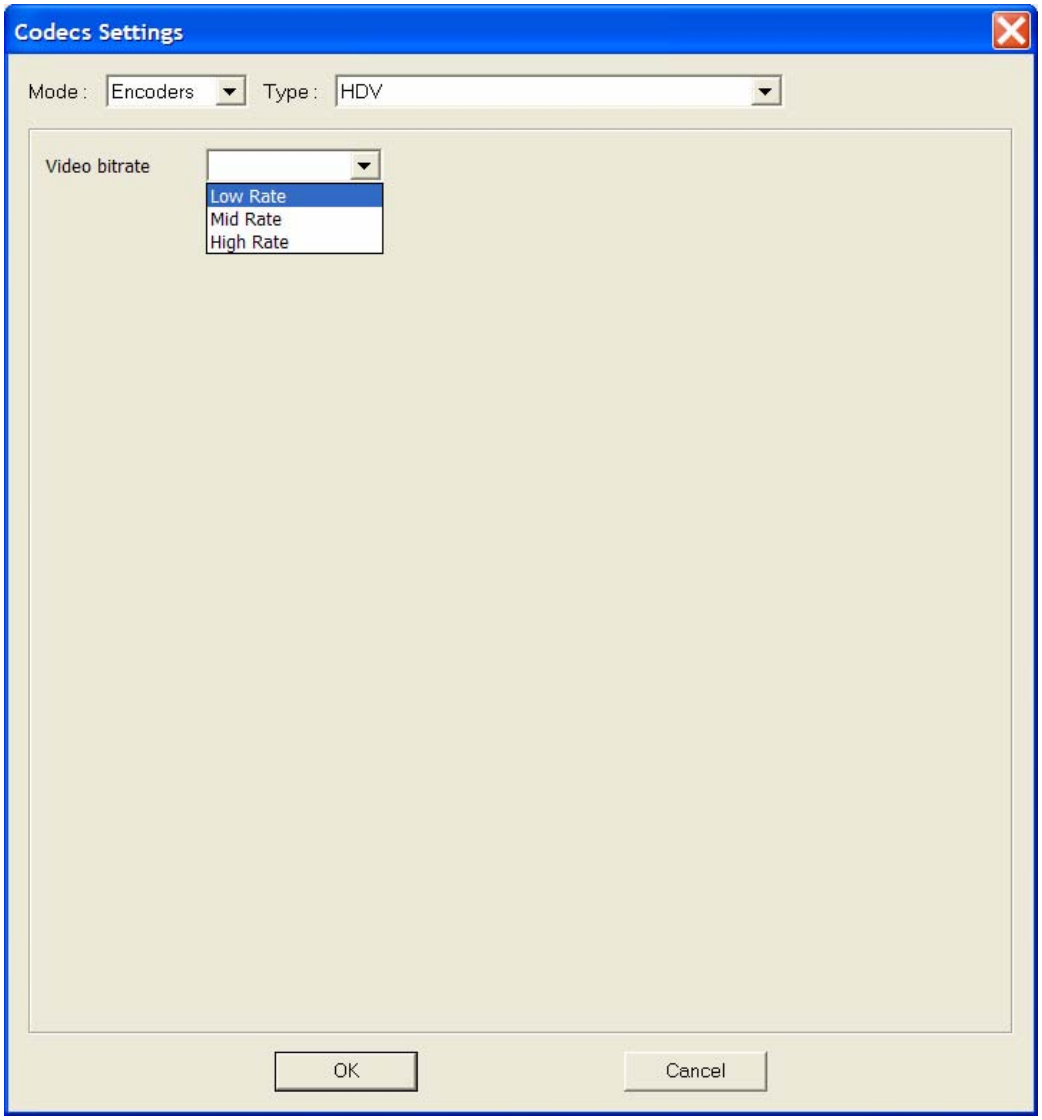
File Wrapper :

Select either :

- Program Stream : the wrapper will be a Program stream (PS) (.mpg) format
- Transport Stream : the wrapper will be a Transport stream TS) (.m2t) format

System Bitrate : Select to specify the system bitrate in bits/s If not selected, the encoder will automatically add stuffing accordingly.

HDV



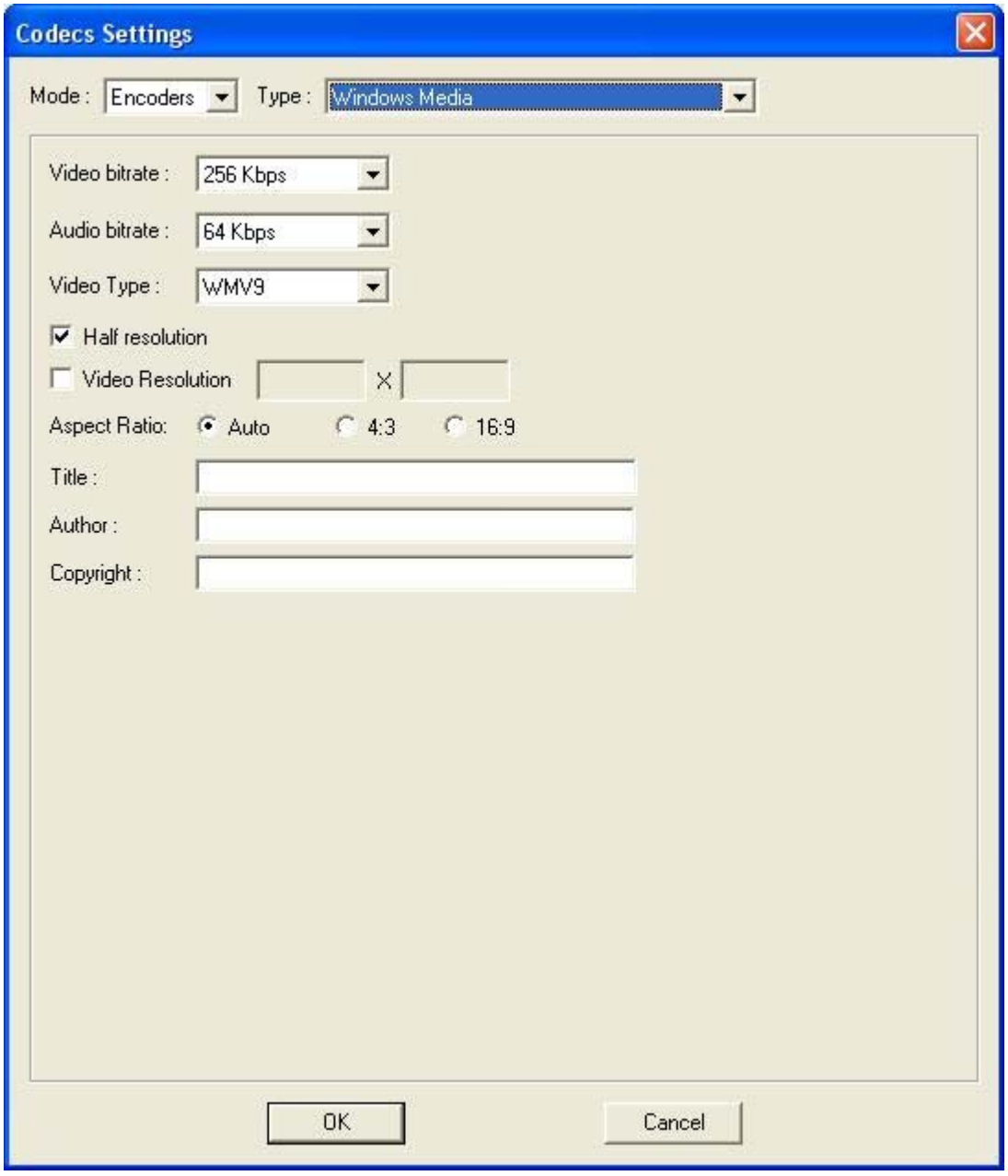
This HDV encoder is used to encode in HDV codec compliant to XDCAM HD format.

Only 2 audios channels are supported for the time being.

Video Bitrate :

- Low bitrate : 17,5 Mbps
- Mid bitrate : 25 Mbps
- High bitrate : 35 Mbps

- Windows Media



Video Bitrate :
Choose among 128, 256, 384 & 512 Kbps. *Those values can be modified in the CodecValues file located in the directory C:\Program Files\EVS Broadcast Equipment\MediaXchange.*

Audio bitrate :
Choose among 16, 32, 64 & 128 Kbps. *Those values values can be*

modified in the CodecValues file located in the directory C:\Program Files\EVS Broadcast Equipment\MediaXchange.

Video Type :

- WMV7 : Windows Media version 7
- WMV8 : Windows Media version 8
- WMV9 : Windows Media version 9
- WMP4 : Windows Media MPEG-4

Half resolution :
Select this option for Half resolution QCIF instead of full resolution CIF

Video Resolution :
Enter the requested horizontal & vertical resolution

Aspect Ratio :

- Automatic : the aspect ratio will be automatically selected following the information available in the source file
- 4:3 : to force to 4:3 aspect ratio
- 16:9 : to force to 16:9 aspect ratio

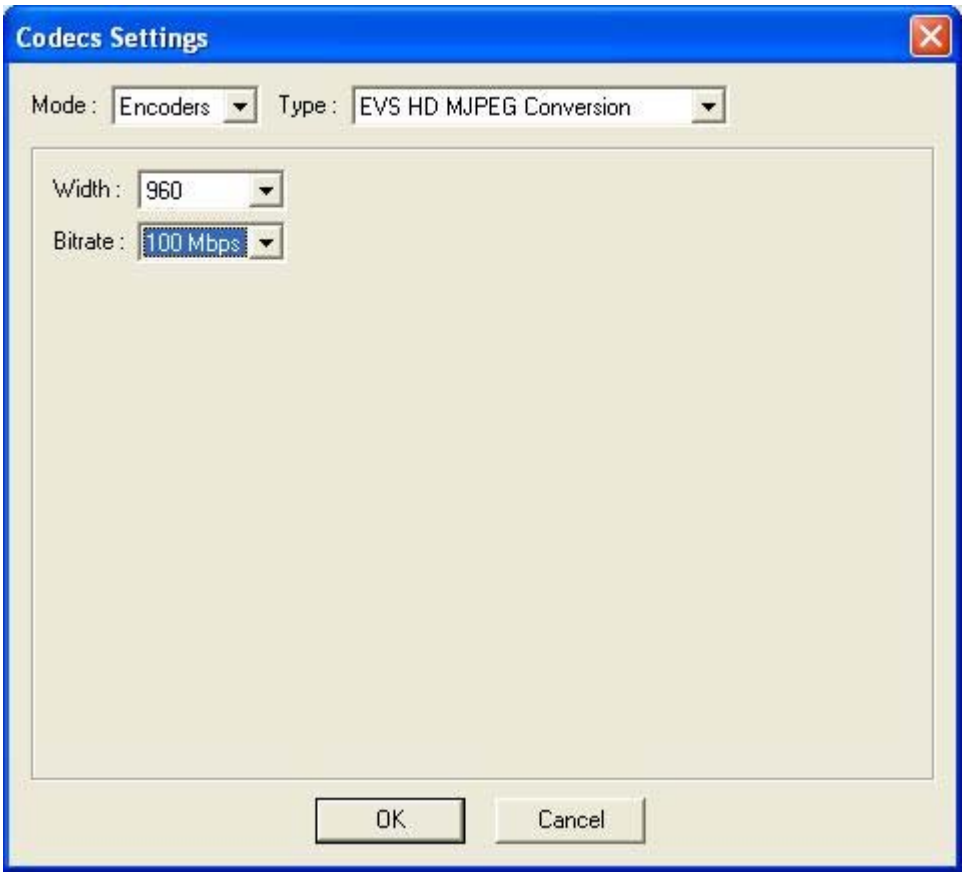
The next parameters (Title, Author and Copyright) refer to contextual information embedded into Windows Media file format

EVS HD MJPEG CONVERSION

This mode allows of transcoding EVS HD MJPEG files between MJPEG EVS format (formerly 4-band) and MJPEG Standard format (formerly 1-band). This is based on a decoding/encoding process.

This mode is based on an automatic detection of the conversion format : MJPEG EVS to MJPEG Standard and MJPEG Standard to MJPEG EVS.

The video format is either 1080i 50/60, 720p 50/60, but it can not be changed during conversion.



Width :
Select the horizontal resolution (width). By choosing "Default", the horizontal resolution will be identical to the source file, but it can be modified or will be automatically modified if not compliant. Note that resolution change increases the transcoding process due to interpolation of the pixels.

- MJPEG EVS to MJPEG Standard :

  - 1080i : 960, 1152, 1280, 1372, 1440, 1536, 1600, 1920.
  - 720p : 640, 768, 960, 1024, 1280.
- MJPEG Standard to MJPEG EVS :
  - 1080i : 960, 1152, 1280, 1372, 1440.
  - 720p : 640, 768, 960, 1024.

Bitrate :
By choosing "Default", the application keeps the original bitrate but it can be changed in order to reduce it for example. Choose among 100, 150 & 200 Mbps. *Those values can be modified in the CodecValues file located in the directory C:\Program Files\EVS Broadcast Equipment\MediaXchange.*

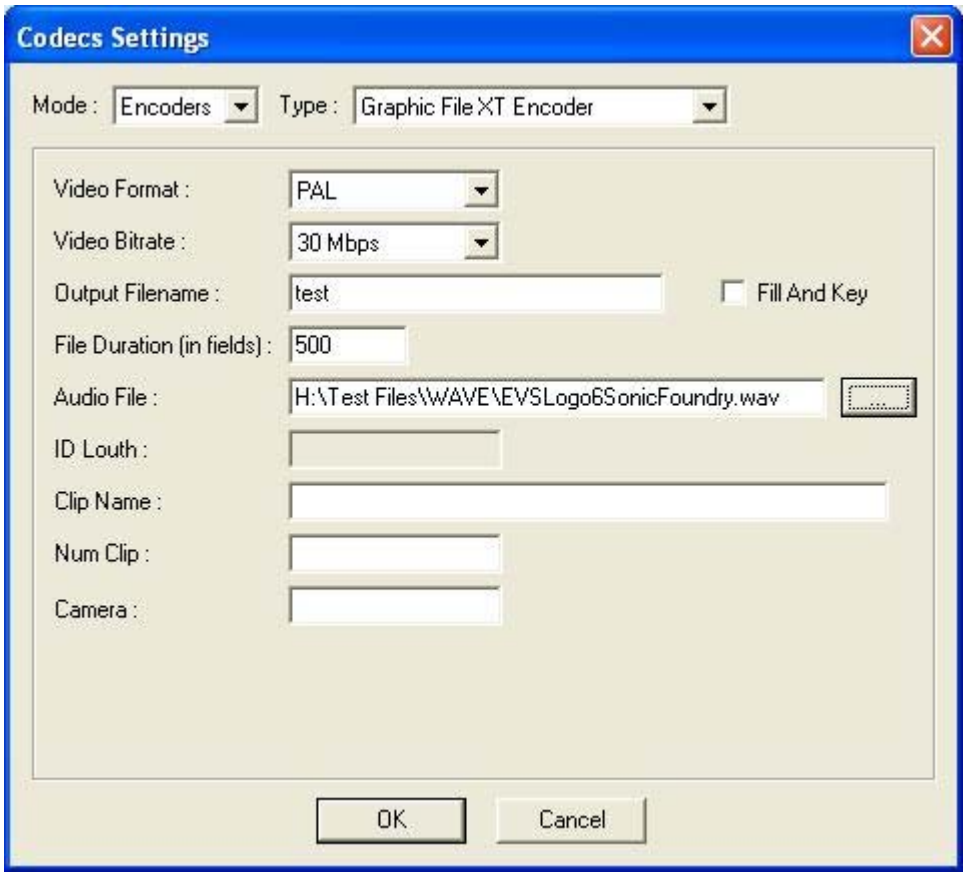
GRAPHIC FILE XT ENCODER

A graphic file or a sequence of graphic files can be encoded to an EVS MJPEG sequence to be restored on XT server for playout.

In this version, only TIFF (.tif), BMP (.bmp) and TGA (.tga) graphic files can be decoded.

2 types of encoding processes have been implemented :

- Still picture encoding : selection of the file through Windows Explorer. A sequence duration must be setup.
- Picture sequence encoding : all the pictures must be located in the same directory and names like picture001.tga, picture002.tga, etc. Select the first picture : e.g. picture000.tga. The duration of the sequence is defined by the number of files in the directory or by a specified duration.



Video Format :
Select the video format : PAL (50 fields/sec) or NTSC (60 fields/sec).
The file resolution is automatically detected and must be compliant to the video format.

- SD PAL : 720 x 576
- SD NTSC : 720 x 480 to 496
- HD 720p : 1280 x 720
- HD 1080i : 1920 x 1080

Video Bitrate :
Choose the value among 20, 25, 30, 35, 40, 45, 50, 100, 150 & 200 Mbps. *Those values can be modified in the CodecValues file located in the directory C:\Program Files\EVS Broadcast Equipment\MediaXchange.*

Output FileName :
The Output FileName can be specified in this field. Otherwise, MediaXchange will use the same FileName as the source picture.

Key And Fill :
Generation of 2 synchronous MJPEG files based on Alpha Channel : one MJPEG content sequence and one MJPEG Key & Fill sequence.

File Duration :
Enter the file duration (in fields) to define the duration of the MJPEG File. Note that in case of a sequence of pictures to encode, the duration is defined by the number of pictures of the sequence, or the File Duration if shorter.

Audio File :
An 16 Bits audio file of 48 kHz (1 to 8 channels) can be encoded along with the video sequence. The file format must be Broadcast Wave Uncompressed (BWAVE) (.wav). The duration of the generated sequence (File Duration) can not be longer than the audio file.

Select the file to be encoded by using the browser.

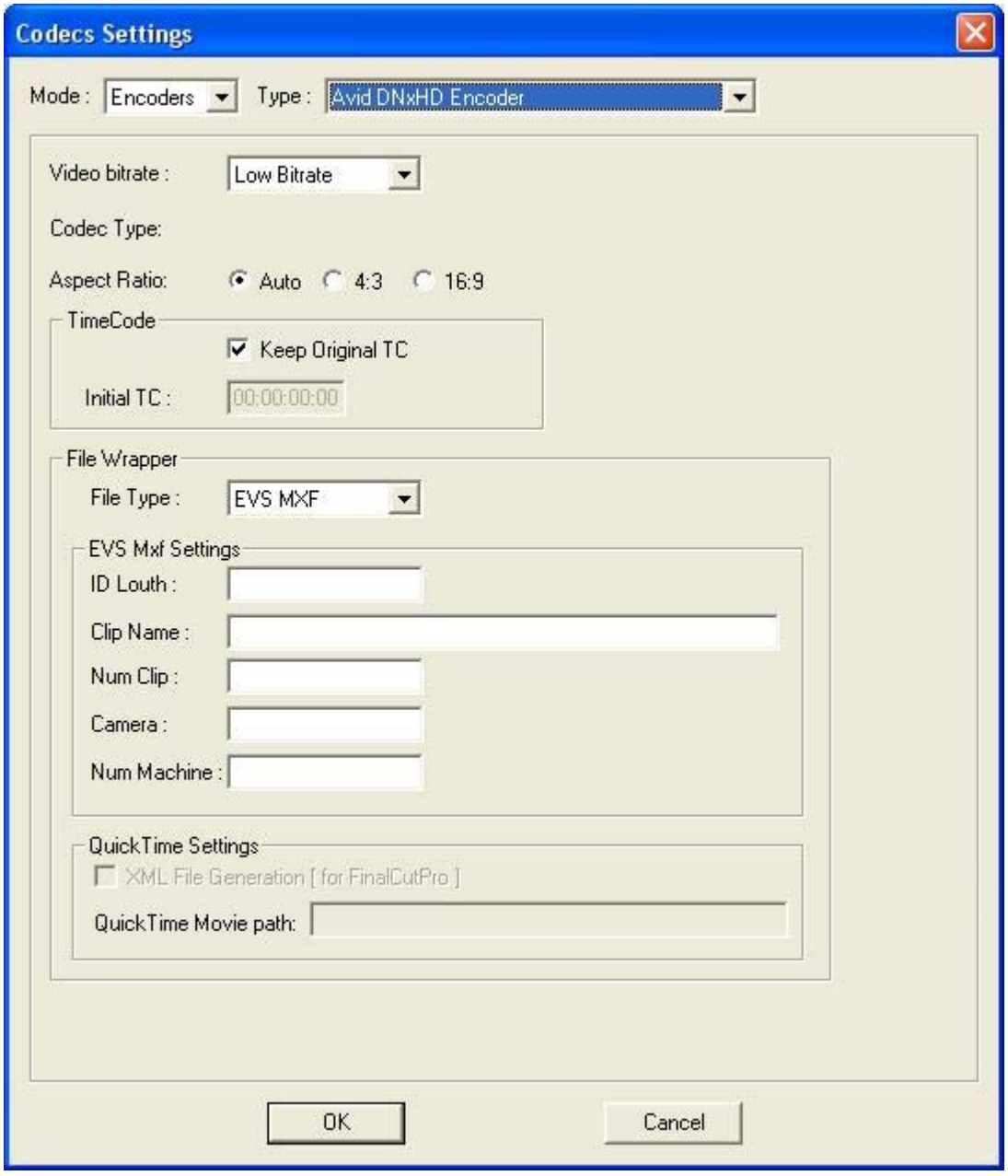
ID Louth :
Enter the ID Louth

Clip Name :
Enter the clip name string

Num clip :
Enter a clip ID

Camera :
Enter a camera value among A, B, C, D, E & F.

AVID DNXHD® ENCODER



Video Bitrate :

- Low bitrate : 120 Mbps (1080i50) or 145 Mbps (1080i59.94 & 720p59.94)
- High bitrate : 185 Mbps (1080i50) or 220 Mbps (1080i59.94 & 720p59.94)

Codec Type :
Only one type : Avid DNxHD® Codec 8-bit

Aspect Ratio :

- Automatic : the aspect ratio will be automatically selected following the information available in the source file
- 4:3 : to force to 4:3 aspect ratio
- 16:9 : to force to 16:9 aspect ratio

TimeCode :

- Keep Original TC : Select this option to keep the original TC included in the source file.
- Initial TC : Enter the value of the first TC put in the file to be converted.

File Wrapper :

Select either :

- EVS MXF : the wrapper will be the EVS MXF proprietary format
- Quick Time : the wrapper will be Quick Time, compatible with Apple Final Cut Pro

- *EVS MXF Settings :*

Those parameters are metadata associated with the EVS MXF file to be used into XFile and XT server. Default values are set if the parameters are left blank.

  - ID Louth : Enter the ID Louth
  - Clip Name : Enter the clip name string
  - Num clip : Enter a clip ID
  - Camera : Enter a camera value among A, B, C, D, E & F.
  - Num Machine : Enter the ID of the device on SDTI network

- *Quick time Settings :*
  - XML File Generation : ***Not valid for this codec !***

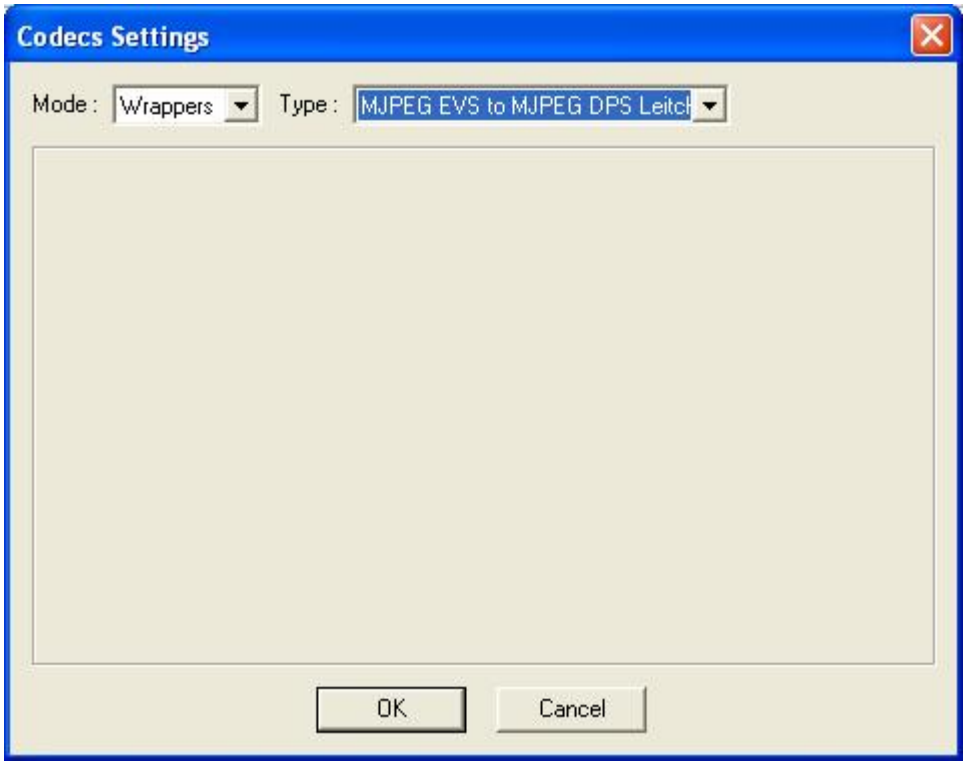
MODE : WRAPPERS

The "Wrappers" mode defines the parameters of the re-wrapping.

MJPEG EVS TO MJPEG LEITCH DPS

This mode is used to replace the EVS MXF wrapper to DPS compatible with Leitch Velocity NLE.

The video format must be MJPEG.

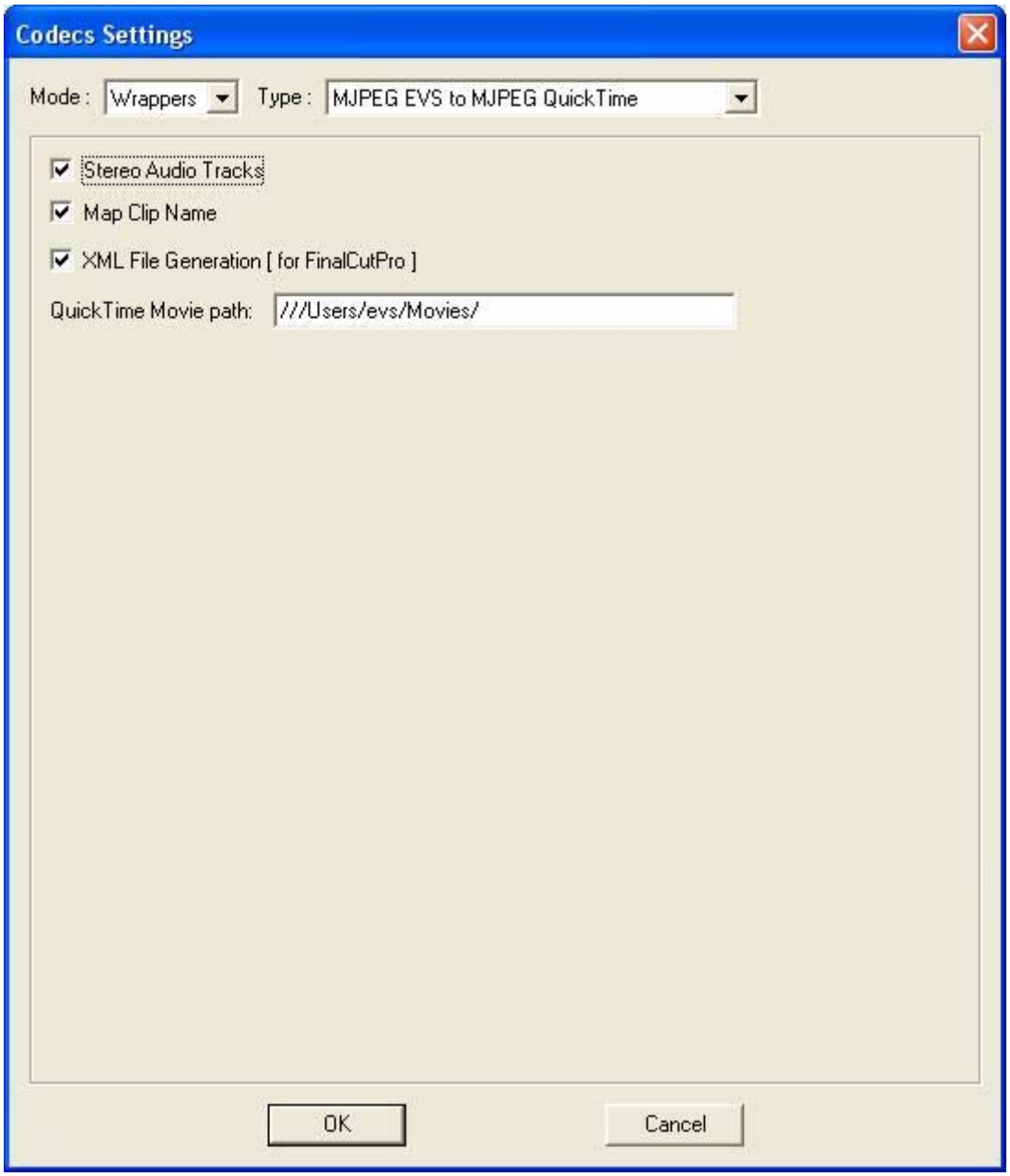


No specific settings are available.

MJPEG EVS TO MJPEG QUICK TIME

This mode is used to replace the EVS MXF wrapper to Quick Time compatible with Apple Final Cut Pro and Avid Media Composer NLEs.

The video format must be MJPEG.



Stereo Audio Tracks :
Check this option to generate stereo audio tracks instead of mono audio

tracks.

Map Clip Name :
Check this option to map the metadata Clip Name in EVS MXF as the Final Cut Pro name in the XML file. Otherwise the file name of the source file will be used instead.

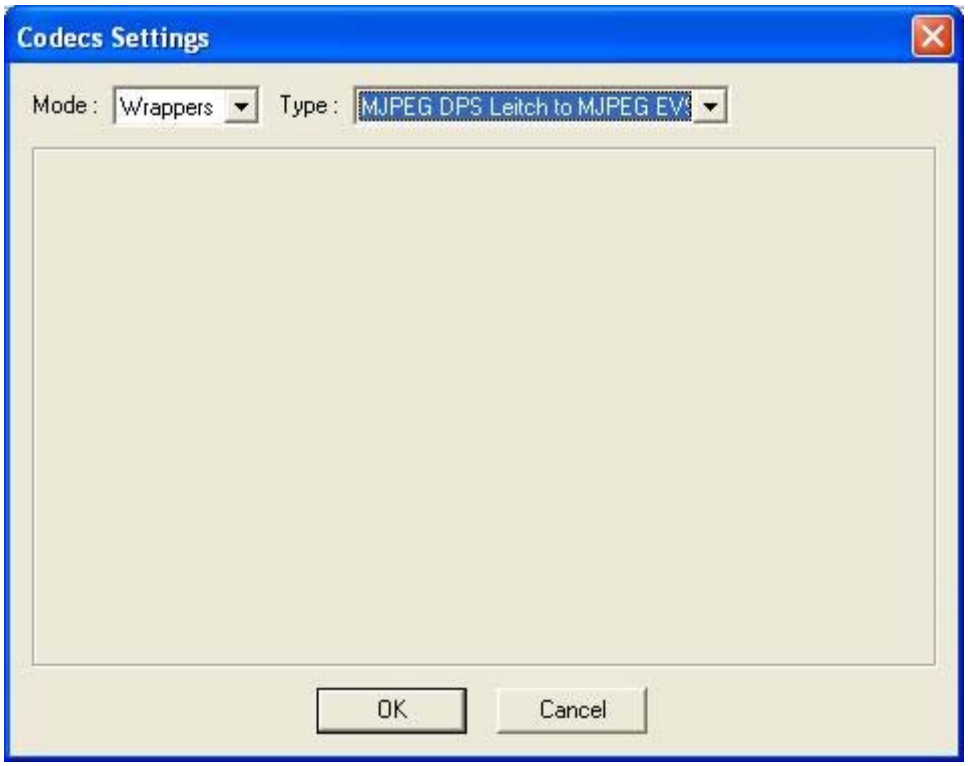
XML File Generation :
Check this option to create a XML file along with the Quick Time file. Dedicated to the XML import in Final Cut Pro. This associated XML file is mandatory to exchange metadata with Final Cut Pro, like File in/out, TC in/out and 4:3/16:9 (anamorphic), etc.

- Quick time Movie Path : The UNC of the destination path of the Quick Time file must be specified. The XML import does not use relative links.

MJPEG LEITCH DPS TO MJPEG EVS

This mode is used to replace the Leitch DPS wrapper to EVS MXF compatible with Leitch Velocity NLE.

The video format must be MJPEG.

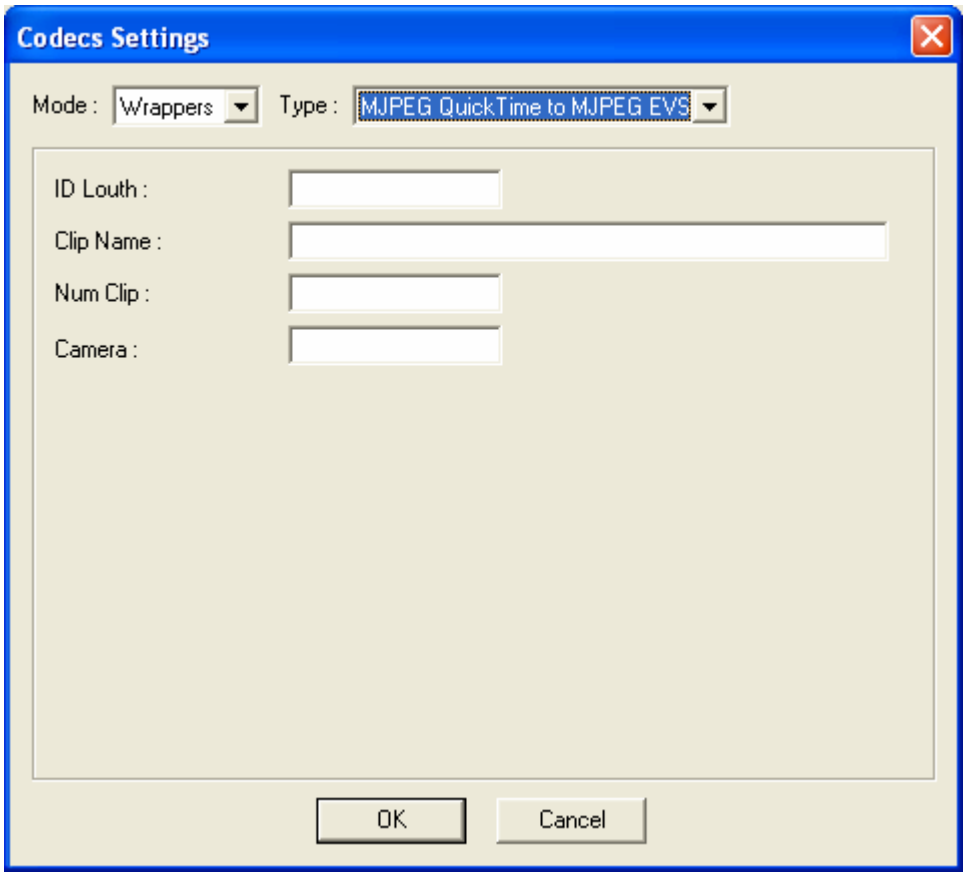


No specific settings are available.

MJPEG QUICK TIME TO MJPEG EVS

This mode is used to replace the Quick Time wrapper to EVS MXF compatible with Apple Final Cut Pro and Avid Media Composer NLEs.

The video format must be MJPEG.



ID Louth :
Enter the ID Louth

Clip Name :
Enter the clip name string

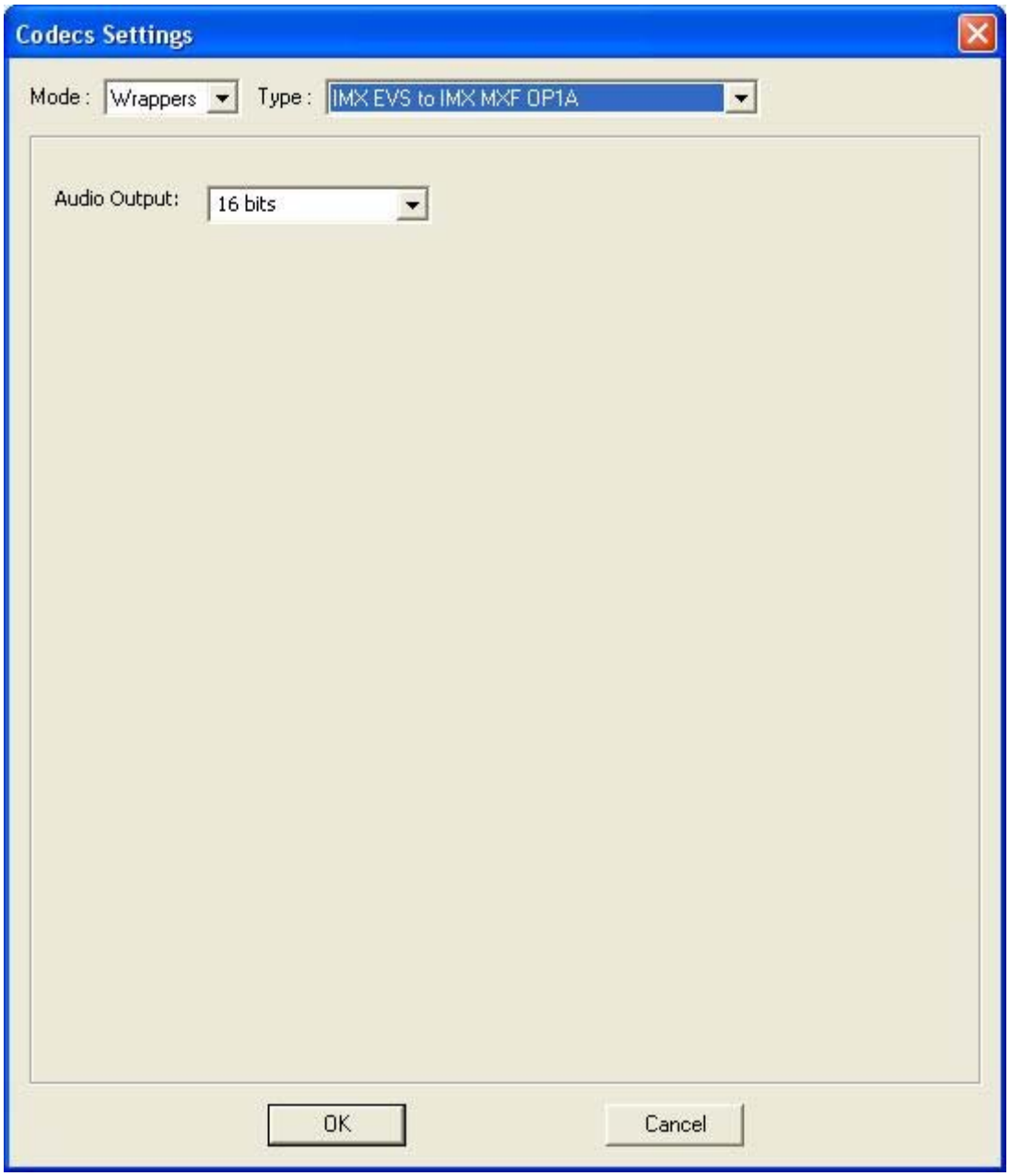
Num clip :
Enter a clip ID

Camera :
Enter a camera value among A, B, C, D, E & F.

IMX EVS TO IMX MXF OP1A

This mode is used to replace the EVS MXF wrapper to MXF OP-1a compatible with Avid Media Composer NLE and XDCAM.

The video format must be IMX.



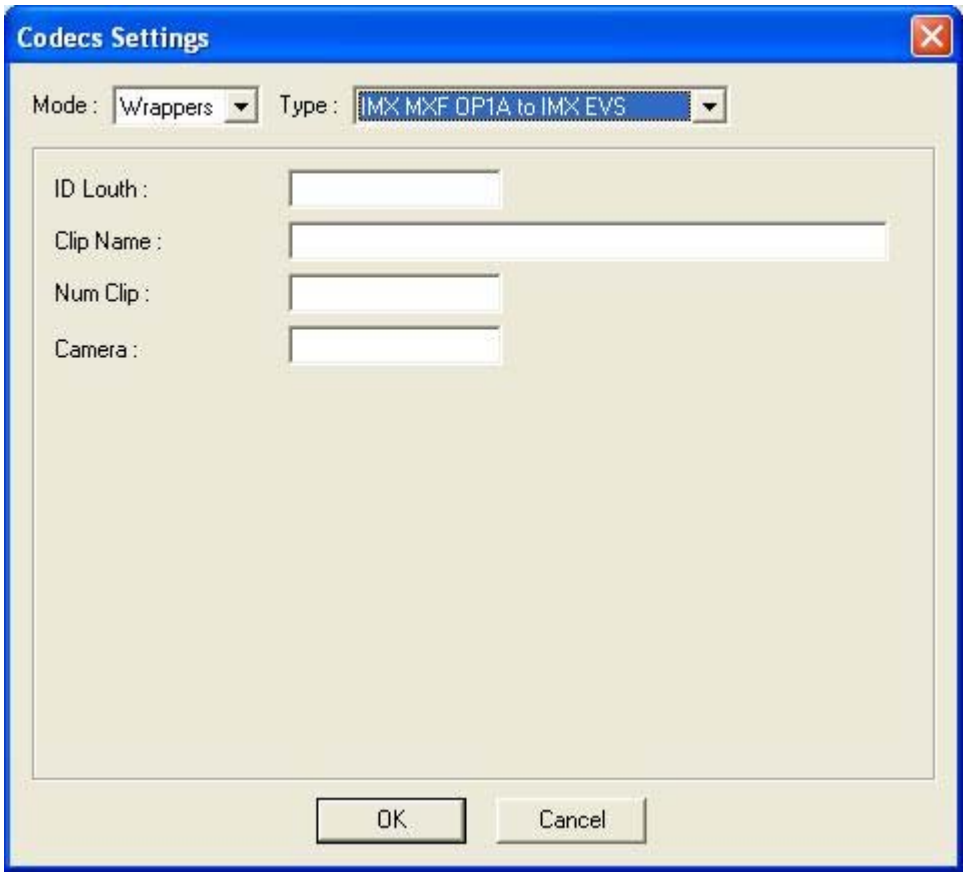
Audio Output :

- 24 bits : XDCAM mode 4 audios/24 bits.
- 16 bits : XDCAM mode 8 audios/16 bits

IMX MXF OP1A TO IMX EVS

This mode is used to replace the MXCF OP-1a wrapper to EVS MXF compatible with Avid Media Composer NLE and XDCAM.

The video format must be IMX.



ID Louth :
Enter the ID Louth

Clip Name :
Enter the clip name string

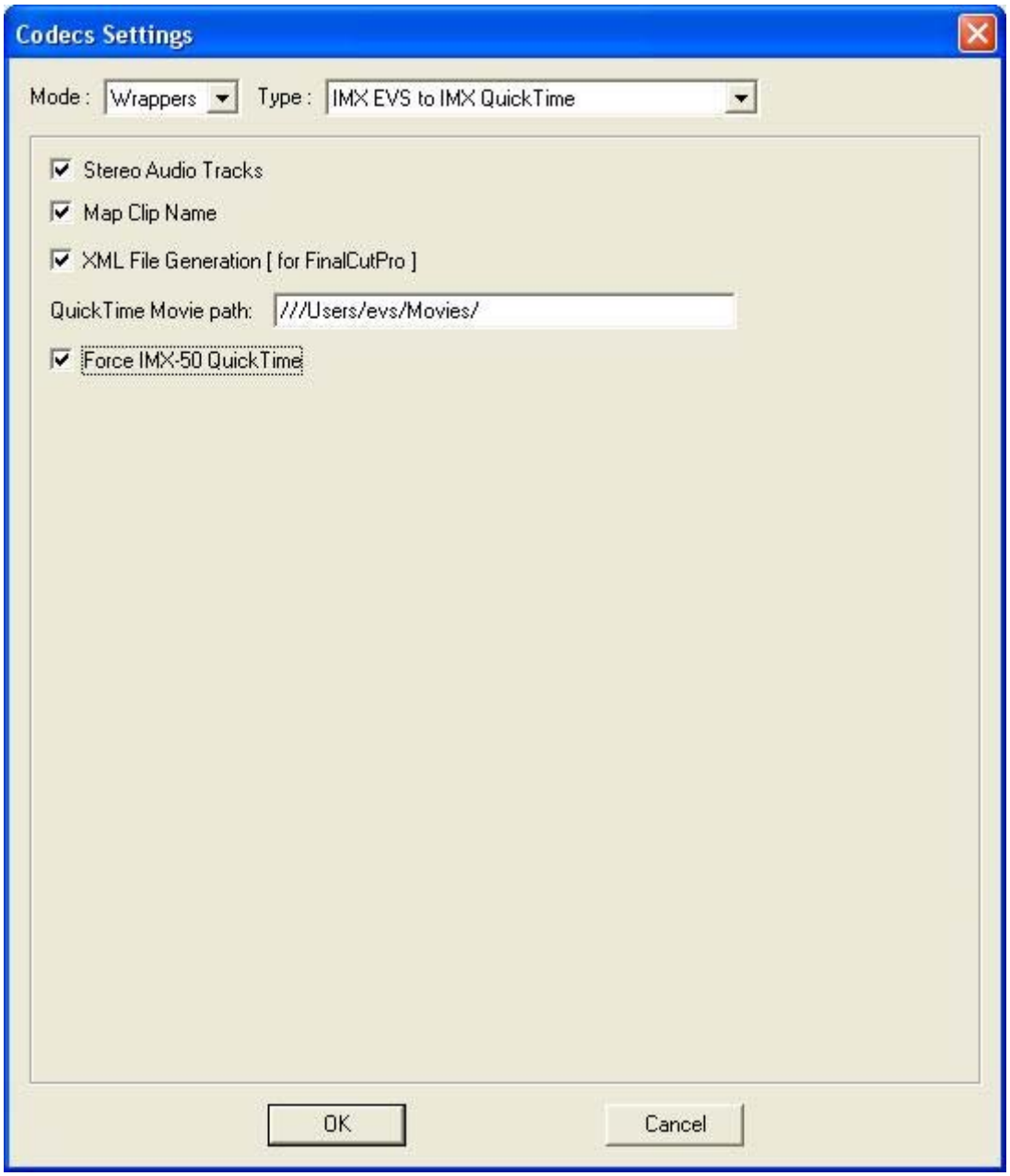
Num clip :
Enter a clip ID

Camera :
Enter a camera value among A, B, C, D, E & F.

IMX EVS TO IMX QUICK TIME

This mode is used to replace the EVS MXF wrapper to Quick Time compatible with Apple Final Cut NLE.

The video format must be IMX.



Stereo Audio Tracks :
Check this option to generate stereo audio tracks instead of mono audio

tracks.

Map Clip Name :
Check this option to map the metadata Clip Name in EVS MXF as the Final Cut Pro name in the XML file. Otherwise the file name of the source file will be used instead.

XML File Generation :
Check this option to create a XML file along with the Quick Time file. Dedicated to the XML import in Final Cut Pro. This associated XML file is mandatory to exchange metadata with Final Cut Pro, like File in/out, TC in/out and 4:3/16:9 (anamorphic), etc.

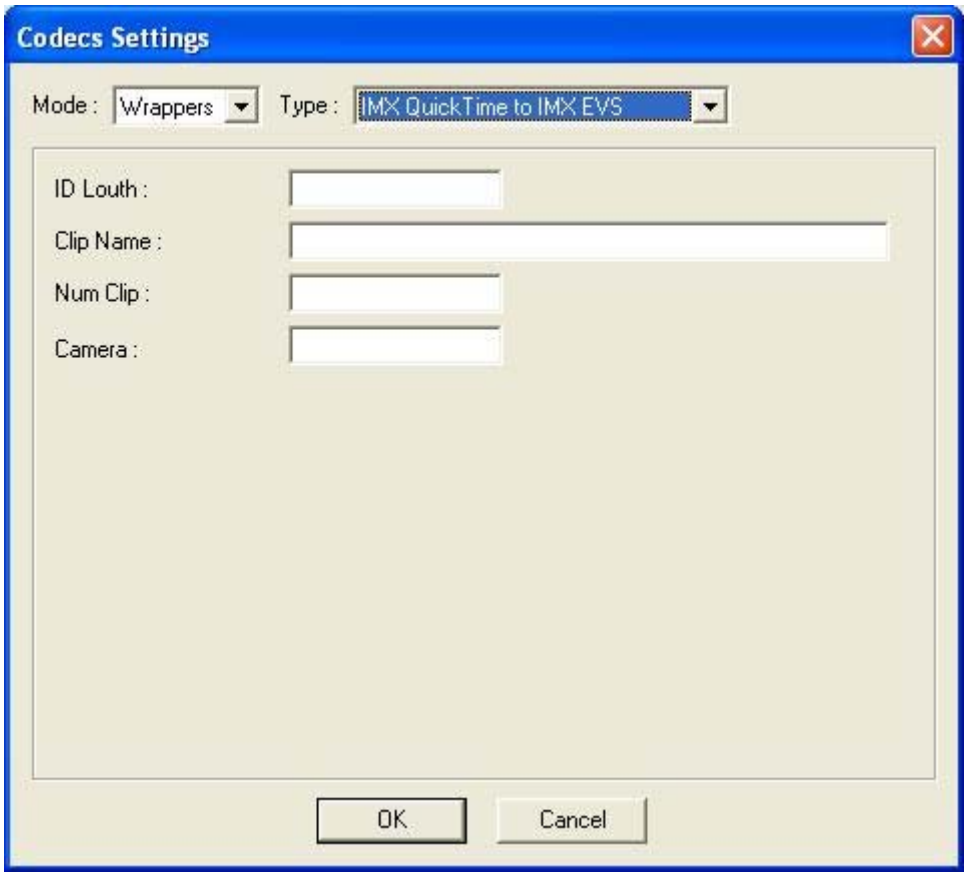
- Quick time Movie Path : The UNC of the destination path of the Quick Time file must be specified. The XML import does not use relative links.

Force IMX-50 Quick Time
Apple Final Cut Pro (FCP) provides RT effect only for IMX 50 (Note : also for IMX 30 in FCP v.5.1.2). By selecting this parameter, the wrapping in Quick Time will add stuffing to reach IMX 50 from a source file in IMX 30 or IMX 40. Note that the size of the file will be increased accordingly.

IMX QUICK TIME TO IMX EVS

This mode is used to replace the Quick Time wrapper to EVS MXF compatible with Apple Final Cut Pro NLE.

The video format must be IMX.



ID Louth :
Enter the ID Louth

Clip Name :
Enter the clip name string

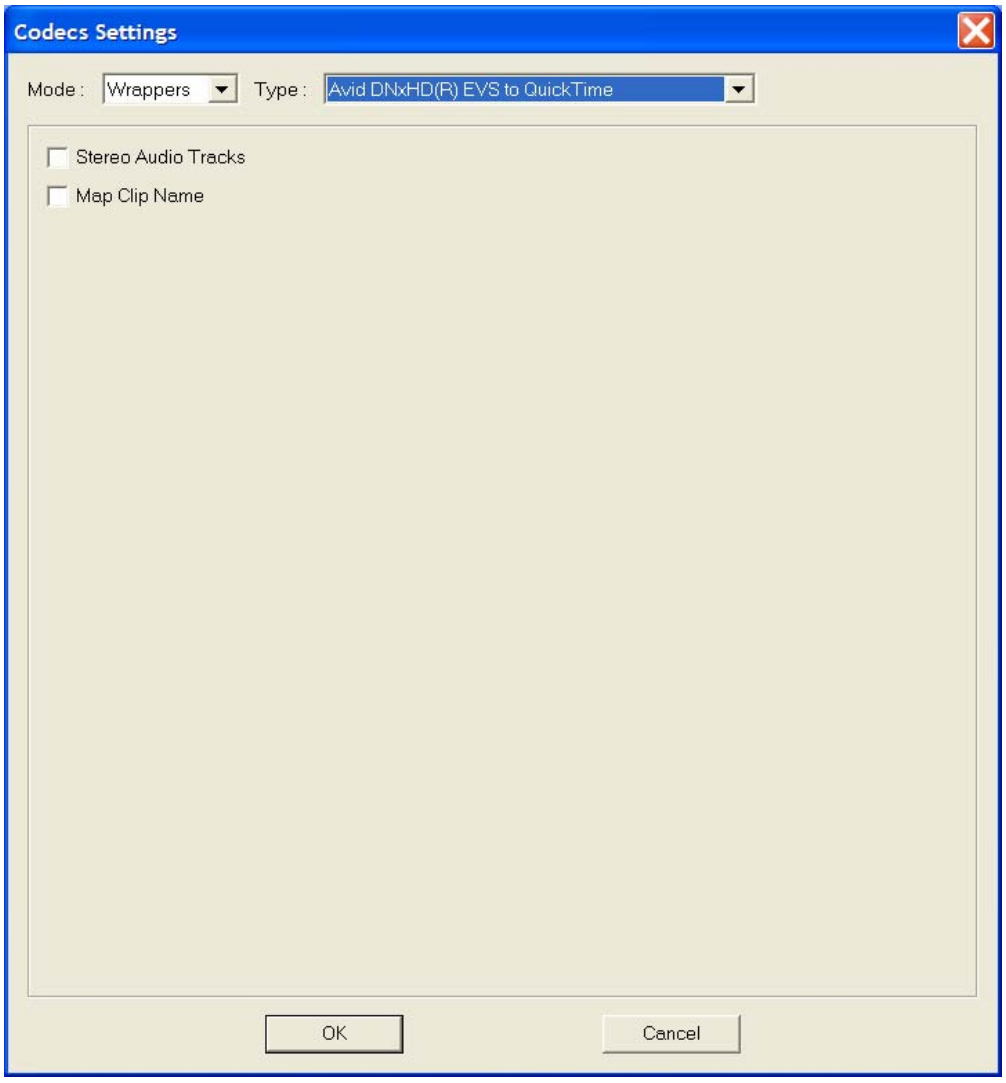
Num clip :
Enter a clip ID

Camera :
Enter a camera value among A, B, C, D, E & F.

AVID DNXHD® EVS TO QUICK TIME

This mode is used to replace the EVS MXF wrapper to Quick Time compatible with DNxHD HD codecs in Avid Media Composer NLE.

The video format must be AVID DNXHD® HD codec in XT server.



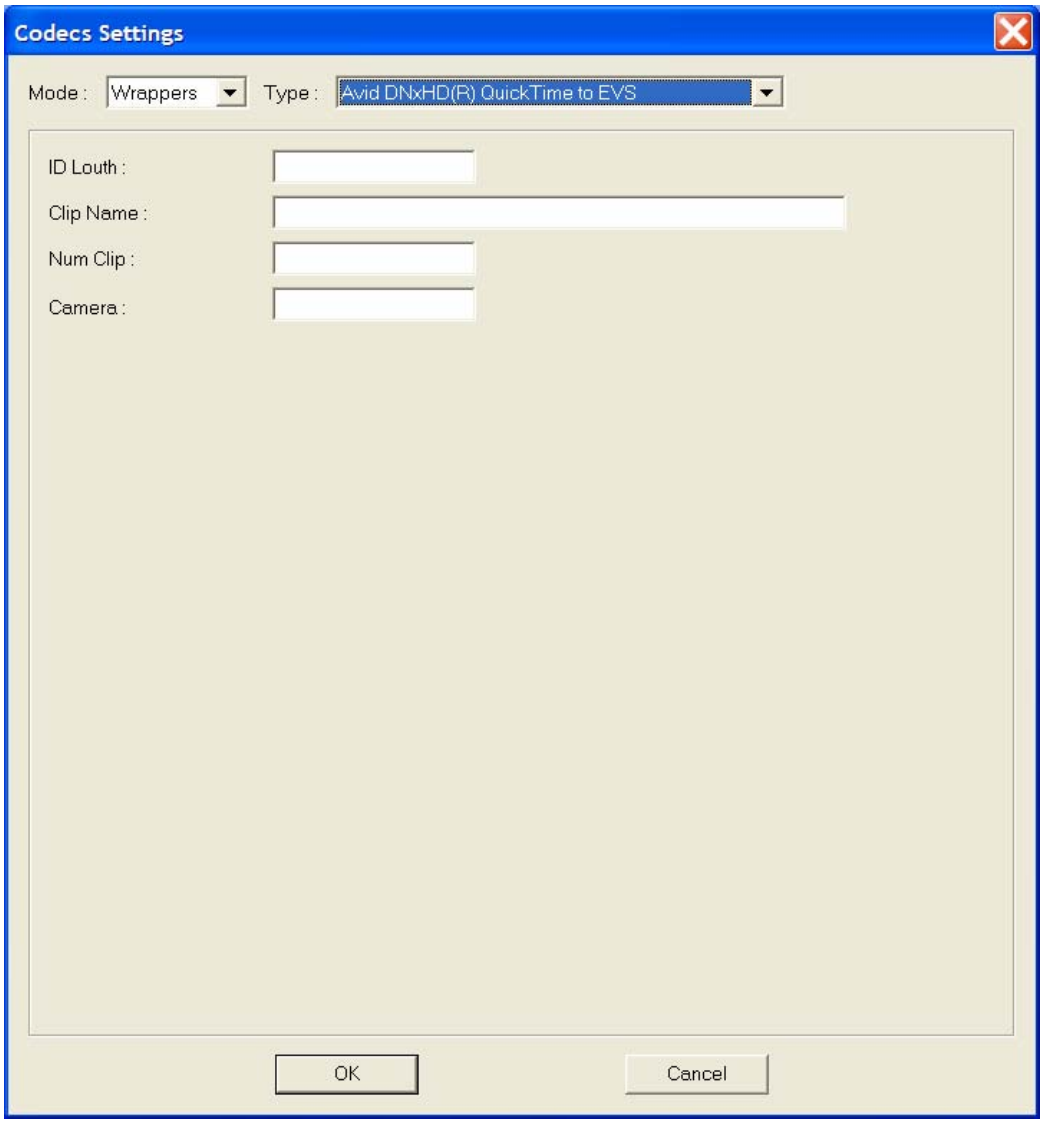
Stereo Audio Tracks :
Check this option to generate stereo audio tracks instead of mono audio tracks.

Map Clip Name :
Check this option to map the metadata Clip Name in EVS MXF as the output file name.

AVID DNXHD® QUICK TIME TO EVS

This mode is used to replace the Quick Time wrapper to EVS MXF compatible with DNxHD HD codecs in Avid Media Composer NLE.

The video format must be AVID DNXHD® HD codec in XT server.



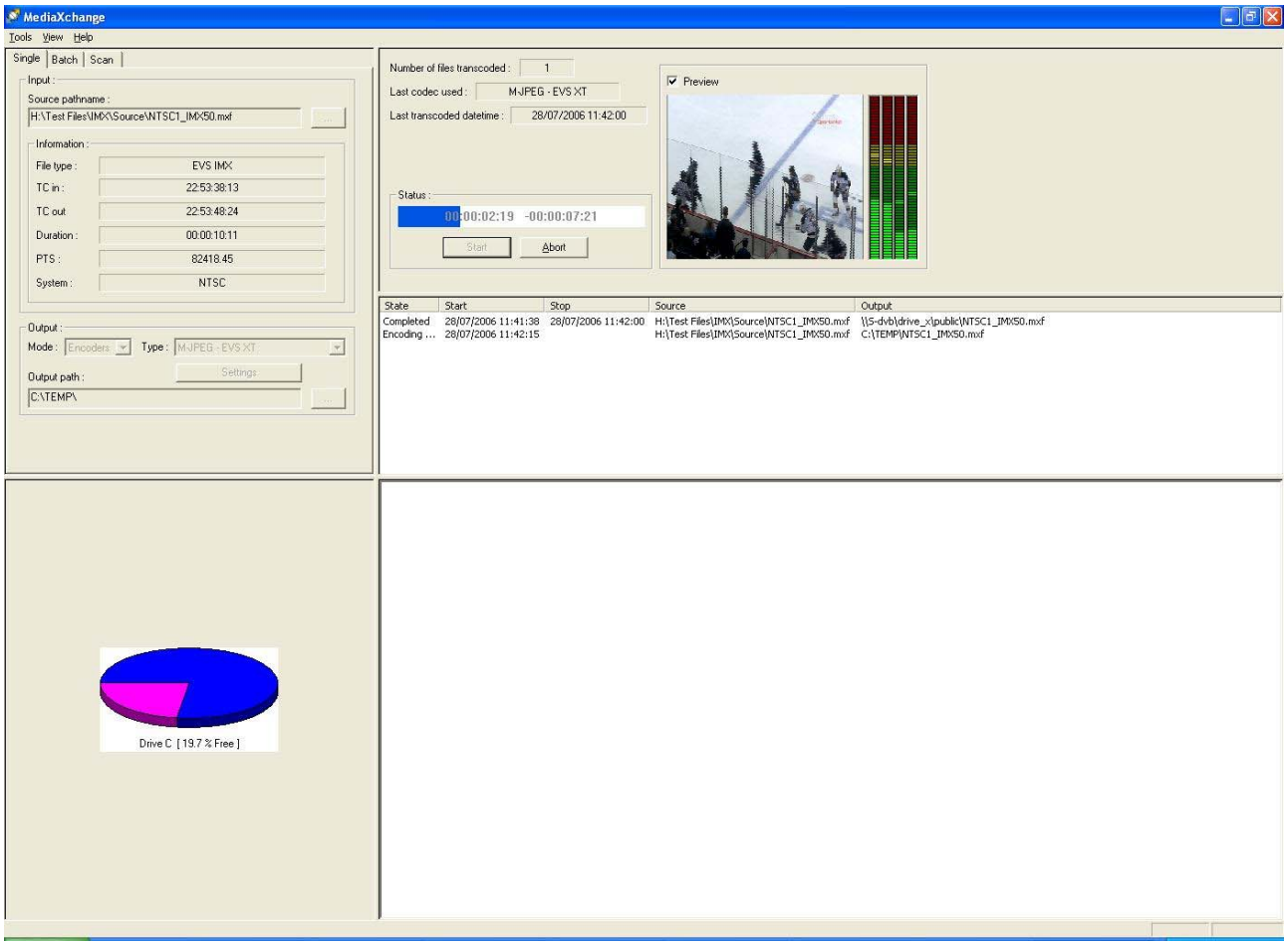
ID Louth :
Enter the ID Louth

Clip Name :
Enter the clip name string

Num clip :
Enter a clip ID

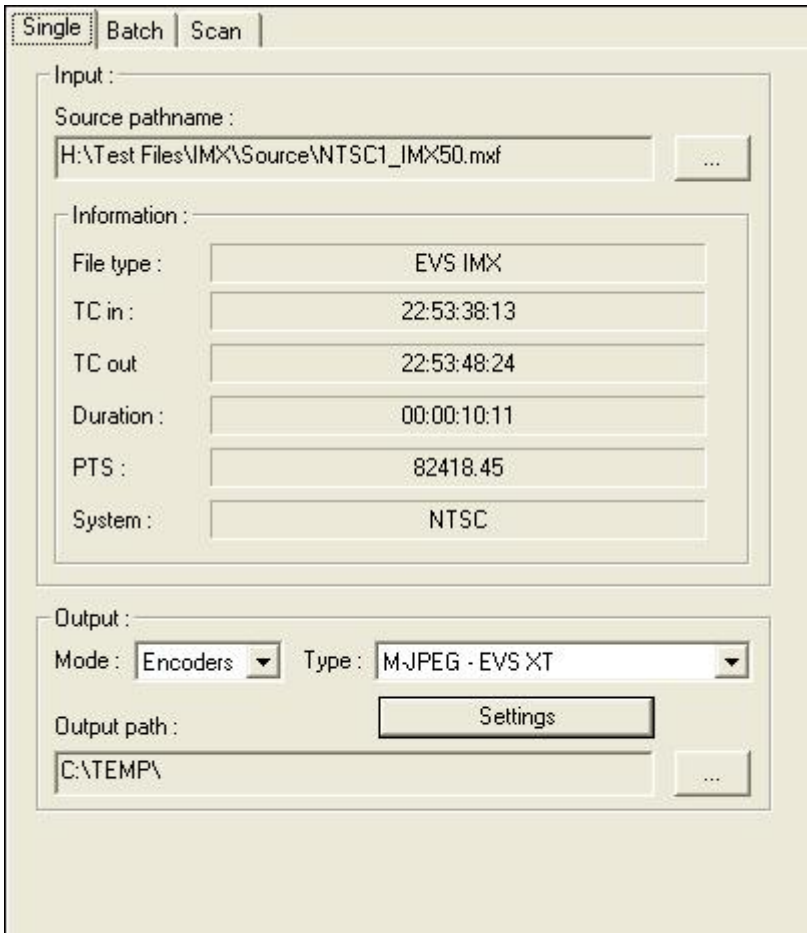
Camera :
Enter a camera value among A, B, C, D, E & F.

GUI Overview



The GUI of the application MediaXchange is divided in 5 zones : Application Modes, Process Monitoring, History Log, Destination Drive Status and Alarms.

Application Modes



This zone contains the different processing modes defined in the MediaXchange application.

Each mode works as a separate application. Anyway only one application can run at once.

Each mode is explained section "Application Modes".

Process Monitoring

This zone monitors the conversion process.

Number of files transcoded :
This information displays the number of files that have been converted since the start of the application.

Last codec used :
Type of codec used during the last conversion.

Last transcoded datetime :
Date and time of the last conversion

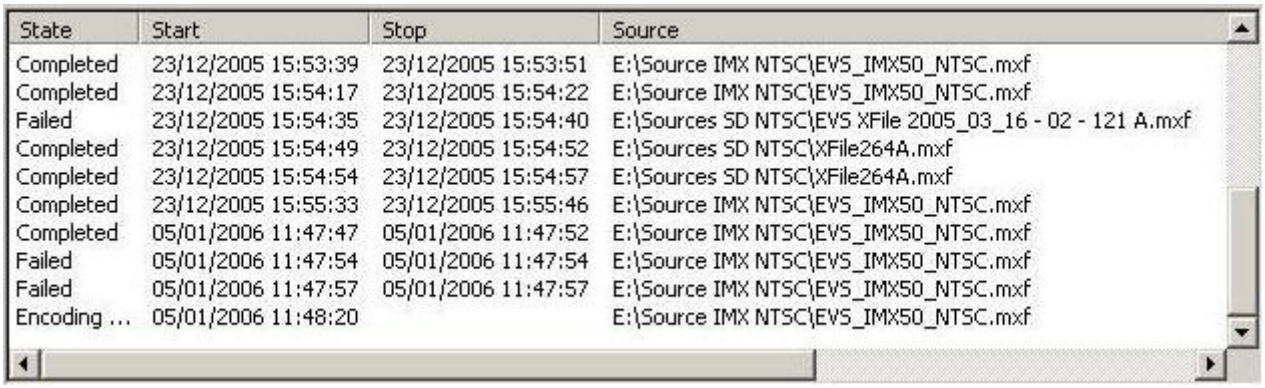
Status :
This a progress bar displaying the position of conversion in the file with time indication about lasting time (left) and remaining time (right).

Video Monitoring :
Select PREVIEW checkbox to display the result of the decoding process with 4 audio VU meters. Note this preview is only available for "encoders" modes, involving decoding of the source file. It does not display any picture in "wrappers" modes.

Start button :
Press this button the start the conversion process.

Stop/Abort button :
Press this button to abort the conversion (manual and batch modes) or to stop the scan mode.

History Log



State	Start	Stop	Source
Completed	23/12/2005 15:53:39	23/12/2005 15:53:51	E:\Source IMX NTSC\EVS_IMX50_NTSC.mxf
Completed	23/12/2005 15:54:17	23/12/2005 15:54:22	E:\Source IMX NTSC\EVS_IMX50_NTSC.mxf
Failed	23/12/2005 15:54:35	23/12/2005 15:54:40	E:\Sources SD NTSC\EVS XFile 2005_03_16 - 02 - 121 A.mxf
Completed	23/12/2005 15:54:49	23/12/2005 15:54:52	E:\Sources SD NTSC\XFile264A.mxf
Completed	23/12/2005 15:54:54	23/12/2005 15:54:57	E:\Sources SD NTSC\XFile264A.mxf
Completed	23/12/2005 15:55:33	23/12/2005 15:55:46	E:\Source IMX NTSC\EVS_IMX50_NTSC.mxf
Completed	05/01/2006 11:47:47	05/01/2006 11:47:52	E:\Source IMX NTSC\EVS_IMX50_NTSC.mxf
Failed	05/01/2006 11:47:54	05/01/2006 11:47:54	E:\Source IMX NTSC\EVS_IMX50_NTSC.mxf
Failed	05/01/2006 11:47:57	05/01/2006 11:47:57	E:\Source IMX NTSC\EVS_IMX50_NTSC.mxf
Encoding ...	05/01/2006 11:48:20		E:\Source IMX NTSC\EVS_IMX50_NTSC.mxf

This zone displays the history or as-run log of all the processes launched since the start of the application.

State :
Status of the jobs done or under processing.

- *Completed* : the jobs is done and finished properly.
- *Failed* : some errors occurred during the job. Check the Alarm zone for more information
- *Encoding* : a job is currently under going.

Start :
Date and time of the job start

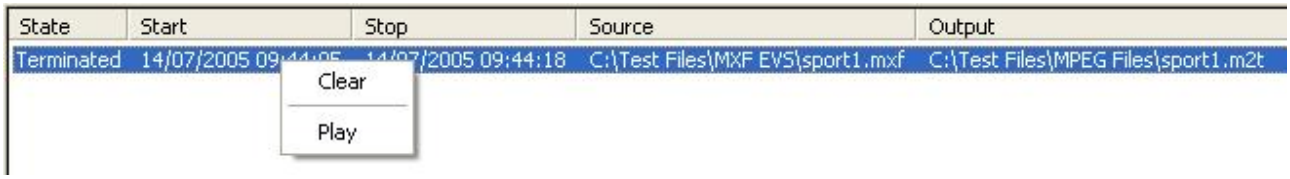
Stop :
Date and time of the job end

Source :
Path and name of the source file

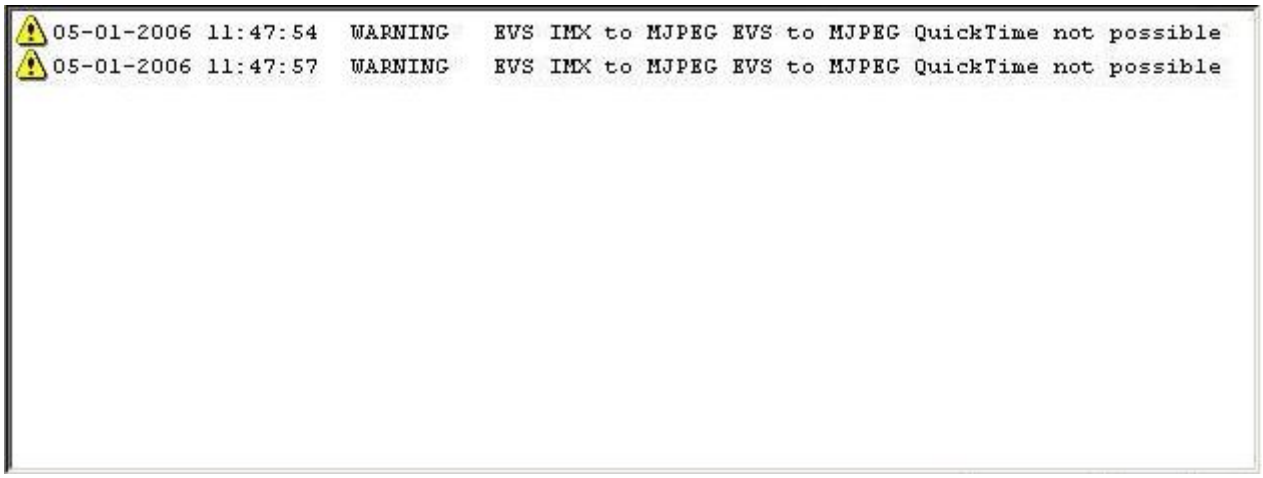
Output :
Path and name of the destination file

Tip : Right click on a job allow to display 2 commands :

- Clear : to clear the job from the history windows
- Play : to launch a player in order to display the converted file. This option is only available with XT server, MPEG and DV codecs.


State
Start
Stop
Source
Output
Terminated
14/07/2005 09:44:18
C:\Test Files\MXF EVS\sport1.mxf
C:\Test Files\MPEG Files\sport1.m2t
Clear
Play

Alarms


05-01-2006 11:47:54 WARNING EVS IMX to MJPEG EVS to MJPEG QuickTime not possible
05-01-2006 11:47:57 WARNING EVS IMX to MJPEG EVS to MJPEG QuickTime not possible

This zone displays the alarms generated by the application.

Typically 2 types of alarms could occur :

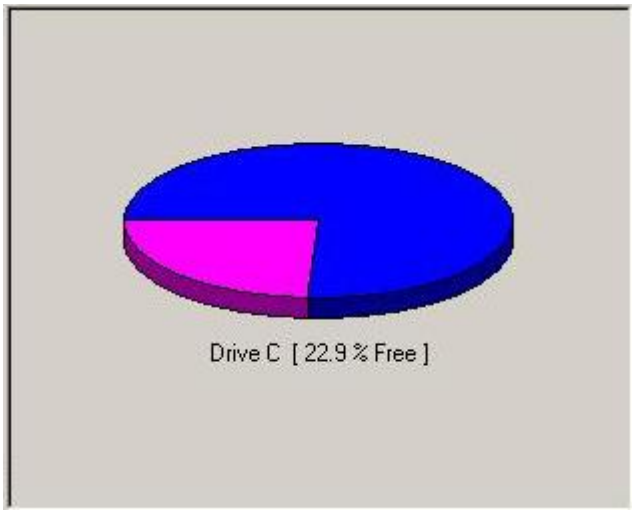
- Errors : this means the application encounters a problem during conversion or at the analysis of the source file. For example, the file format is not recognized or the file extension is not supported. The history status will display a "failed" status for this job.

- Warnings : this means the application is not allowed or not capable of handling the process as setup.

Tip : Right click in the "Alarms" zone allow to display ::

- Autoscroll :
- Clear logbook : to clear the alarms logs.

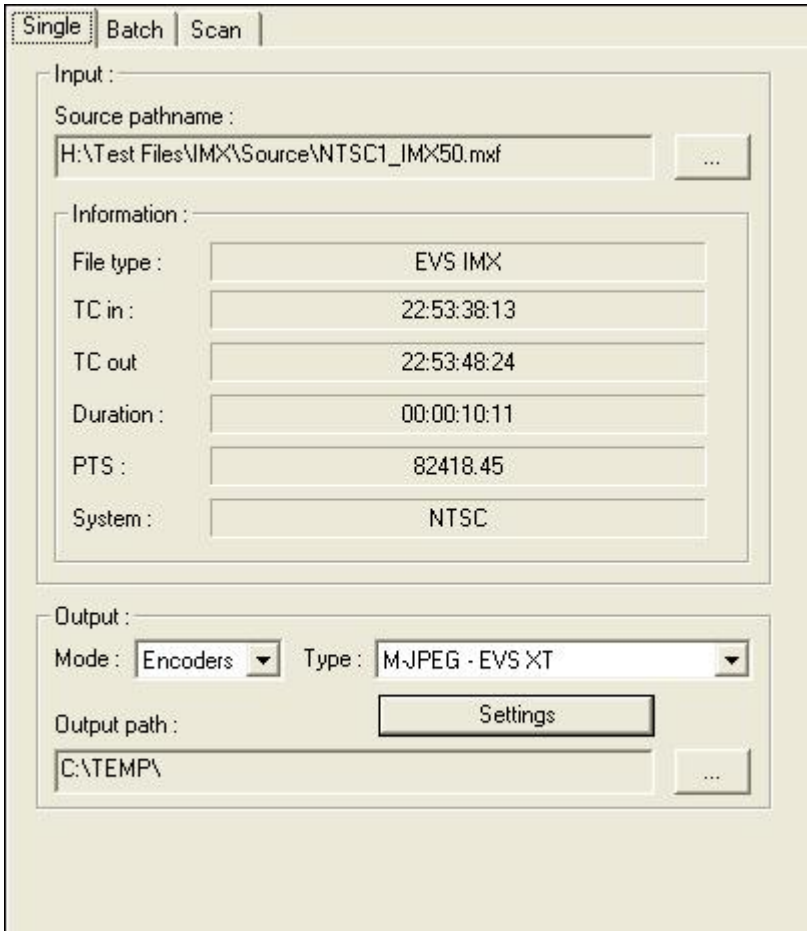
Destination Drive Status



This zone shows the output drive or destination drive status with the remaining storage available.

Application Modes

Single Mode



This mode is aimed at converting one file at once by defining the parameters manually.

DESCRIPTION OF THE INTERFACE

INPUT

Source pathname :
Select the source file to be converted by browsing the folders. This path could be either a local directory, a remote directory (mapped drive) or a

UNC.

Information :
Information list the attributes of the source file after analysis by TimeCode Extractor application. When available, this application replies the following parameters :

- File Type
- TC in
- TC out
- Duration
- PTS : if available
- System : video format (PAL or NTSC)

OUTPUT

Output path :
Select the destination file to be converted by browsing the folders. This path could be either a local directory, a remote directory (mapped drive) or a UNC.

Mode :
Select between "wrappers" (only file format replacement) or "encoders" (decoding/encoding process)

Type for wrappers :
Select the type of wrapper to be used :

- *MJPEG EVS to MJPEG DPS Leitch* : to convert an MJPEG EVS MXF file to DPS, DVA Leitch Velocity proprietary format
- *MJPEG EVS to MJPEG Quick Time* : to convert an MJPEG EVS MXF file to MOV QuickTime format
- *MJPEG DPS Leitch to MJPEG EVS* : to convert MJPEG DPS Leitch Velocity format to EVS XT MXF format.
- *MJPEG QuickTime to MJPEG EVS* : to convert MJPEG MOV Quick Time format to EVS XT MXF format.
- *IMX EVS to IMX MXF OP1A* : to convert an IMX EVS MXF file to MXF OP1A format
- *IMX MXF OP1A to IMX EVS* : to convert an IMX MXF OP1A file to IMX EVS format
- *IMX EVS to IMX Quick Time* : to convert an IMX EVS MXF file to Quick Time format
- *IMX Quick Time to IMX EVS* : to convert an IMX Quick Time file to IMX EVS format
- *AVID DNXHD® EVS to Quick Time* : to convert a AVID DNXHD® EVS MXF file to Quick Time format
- *AVID DNXHD® Quick Time to EVS* : to convert a AVID DNXHD® Quick Time file to EVS MXF format

Type for encoders :
Select the type of codec to be used :

- *M-JPEG (EVS XT)* : to encode in EVS M-JPEG compatible with XT server family.
- *DV Family* : to encode using DV family formats (DV 25, DVCPRO 25/50, XDCAM (DVCAM), P2)
- *DVCPRO HD* : to encode using DVCPRO HD format
- *IMX- D10* : to convert to IMX format
- *MPEG2* : to convert to MPEG-2 formats.
- *MPEG1* : to convert to MPEG-1 formats.
- *HDV* : to convert to HDV compliant XDCAM HD
- *Windows Media* : to convert to Windows Media family formats (WM9, MPEG-4)
- *EVS HD MJPEG Conversion* : to convert between HD MJPEG EVS and Standard formats
- *Graphic File XT Encoder* : to encode a MJPEG sequence from a bitmap
- *Avid DNxHD® Encoder* : To convert to Avid DNxHD® Encoder.

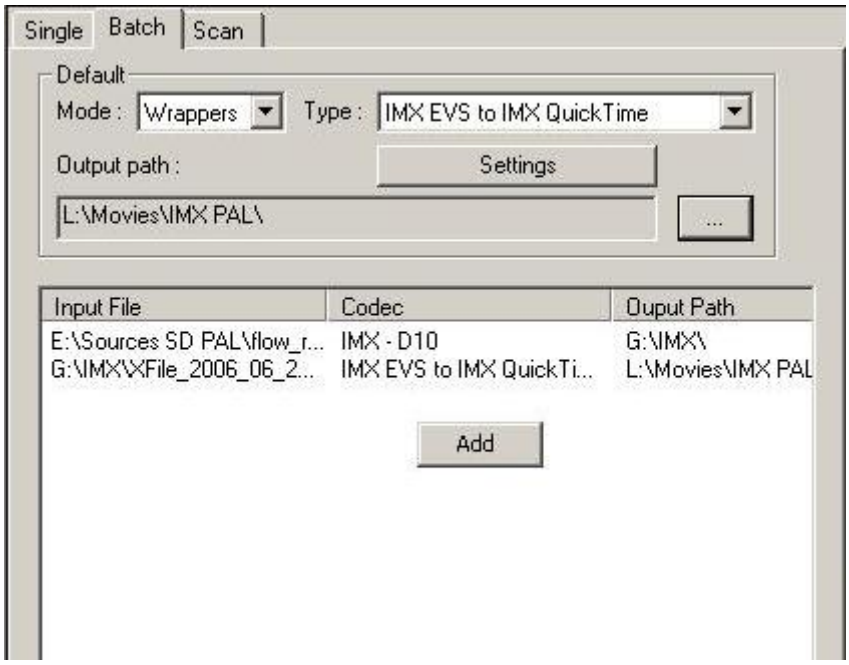
Settings :
This buttons allows to directly access the selected codec settings.

PROCEDURE

1. Select the source file to convert
2. Check the information relative to the source file is correct
3. Select the output path, the file name will be identical to the source name with another extension
4. Select the Mode
5. Select the wrapper or the codec
6. Double check the codec settings
7. Start the process by pressing the "Start" button in the monitoring windows
8. During the processing, a "transcoding" status is displayed in the bottom right corner of the application window. "Encoding" status is also displayed in the History log window. And the progress bar is moving continuously or step by step.
9. At the end of the process, check the status in the History log is "completed" for this job.

10. A Post Process is started at the end of the job in case this option is selected in "General settings" menu.

Batch Mode



This mode is aimed at converting a list of files (jobs) at once by defining the parameters manually for each file (job) separately.

DESCRIPTION OF THE INTERFACE

DEFAULT

Default parameters for the conversion.

Output path :
Select the destination file to be converted by browsing the folders.

Mode :
Select between "wrappers" (only file format replacement) or "encoders" (decoding/encoding process)

Type for wrappers :
Select the type of wrapper to be used :

- *MJPEG EVS to MJPEG DPS Leitch* : to convert an MJPEG EVS MXF file to DPS, DVA Leitch Velocity proprietary format
- *MJPEG EVS to MJPEG Quick Time* : to convert an MJPEG EVS MXF file to MOV QuickTime format
- *MJPEG DPS Leitch to MJPEG EVS* : to convert MJPEG DPS Leitch

Velocity format to EVS XT MXF format.

- *MJPEG QuickTime to MJPEG EVS* : to convert MJPEG MOV Quick Time format to EVS XT MXF format.
- *IMX EVS to IMX MXF OP1A* : to convert an IMX EVS MXF file to MXF OP1A format
- *IMX MXF OP1A to IMX EVS* : to convert an IMX MXF OP1A file to IMX EVS format
- *IMX EVS to IMX Quick Time* : to convert an IMX EVS MXF file to Quick Time format
- *IMX Quick Time to IMX EVS* : to convert an IMX Quick Time file to IMX EVS format
- *AVID DNXHD® EVS to Quick Time* : to convert a AVID DNXHD® EVS MXF file to Quick Time format
- *AVID DNXHD® Quick Time to EVS* : to convert a AVID DNXHD® Quick Time file to EVS MXF format

Type for encoders :
Select the type of codec to be used :

- *M-JPEG (EVS XT)* : to encode in EVS M-JPEG compatible with XT server family.
- *DV Family* : to encode using DV family formats (DV 25, DVCPRO 25/50, XDCAM (DVCAM), P2)
- *DVCPRO HD* : to encode using DVCPRO HD format
- *IMX- D10* : to convert to IMX format
- *MPEG2* : to convert to MPEG-2 formats.
- *MPEG1* : to convert to MPEG-1 formats.
- *HDV* : to convert to HDV compliant XDCAM HD.
- *Windows Media* : to convert to Windows Media family formats (WM9, MPEG-4)
- *EVS HD MJPEG Conversion* : to convert between HD MJPEG EVS and Standard formats
- *Graphic File XT Encoder* : to encode a MJPEG sequence from a bitmap
- *Avid DNxHD® Encoder* : To convert to Avid DNxHD® Encoder.

Settings :
This buttons allows to directly access the selected codec settings.

INPUT ZONE

This zone is used to add source files in the batch list and also to list the parameters chosen for the conversion of each files.

Input File :
Path and name of the source file. This path could be either a local directory, a remote directory (mapped drive) or a UNC.

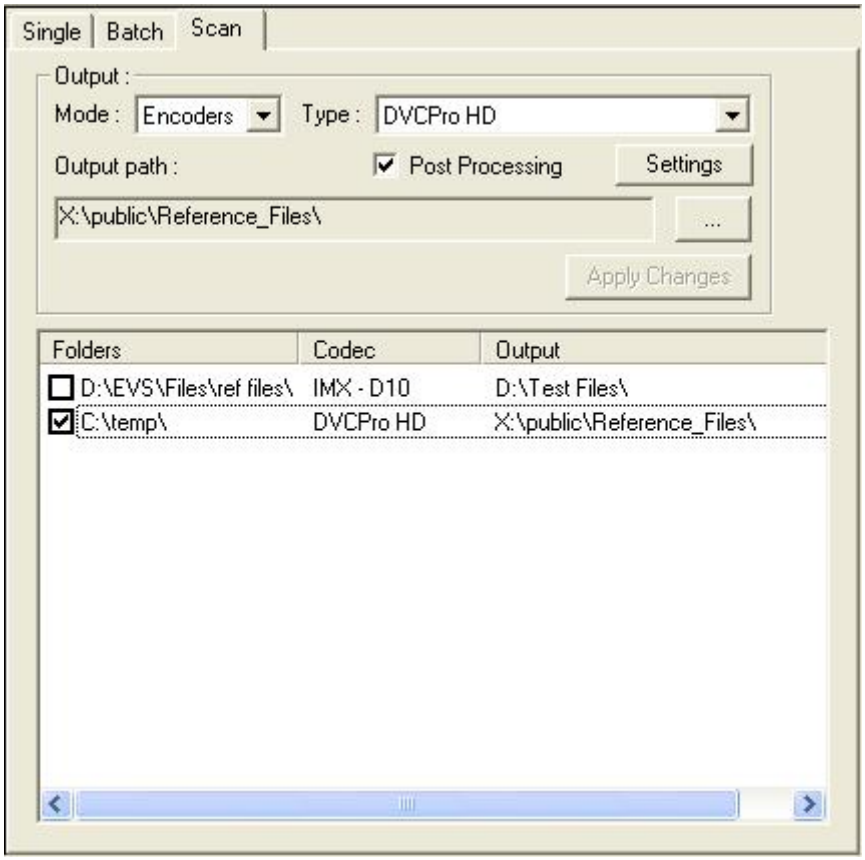
Codec :
Choice of wrapper or encoder

Output Path
Path of the destination file, the file name will be identical to the source name with another extension. This path could be either a local directory, a remote directory (mapped drive) or a UNC.

PROCEDURE

1. To add a new source file to be converted :
    a. Check the default parameters (Output path, Mode and type). Modify them if necessary and double check the codec settings
    b. Right click in the Input Zone and select "Add"
    c. Choose your file to be converted by browsing the folders
2. If you want to add another source file, return to step 1. This means different settings can be selected for each file to be converted. A separate job will be performed.
3. Start the process by pressing the "Start" button in the monitoring windows
4. During the processing, a "transcoding" status is displayed in the bottom right corner of the application window. "Encoding" status is also displayed in the History log window. And the progress bar is moving continuously or step by step.
5. At the end of the batch process, check the status in the History log is "completed" for list of jobs.
6. A Post Process is started at the end of each job in case this option is selected in "General settings" menu.

Scan Mode



This mode is aimed at continuously scanning pre-defined directories and afterwards converting new coming files. Multi-scan allows for defining scanning jobs with different parameters. This is useful if you need to automate a two-way process with NLEs like Avid or Apple Final Cut Pro.

DESCRIPTION OF THE INTERFACE

OUTPUT

Mode :
Select between "wrappers" (only file format replacement) or "encoders" (decoding/encoding process)

Type for wrappers :
Select the type of wrapper to be used :

- *MJPEG EVS to MJPEG DPS Leitch* : to convert an MJPEG EVS MXF file to DPS, DVA Leitch Velocity proprietary format

- *MJPEG EVS to MJPEG Quick Time* : to convert an MJPEG EVS MXF file to MOV QuickTime format
- *MJPEG DPS Leitch to MJPEG EVS* : to convert MJPEG DPS Leitch Velocity format to EVS XT MXF format.
- *MJPEG QuickTime to MJPEG EVS* : to convert MJPEG MOV Quick Time format to EVS XT MXF format.
- *IMX EVS to IMX MXF OP1A* : to convert an IMX EVS MXF file to MXF OP1A format
- *IMX MXF OP1A to IMX EVS* : to convert an IMX MXF OP1A file to IMX EVS format
- *IMX EVS to IMX Quick Time* : to convert an IMX EVS MXF file to Quick Time format
- *IMX Quick Time to IMX EVS* : to convert an IMX Quick Time file to IMX EVS format
- *AVID DNXHD® EVS to Quick Time* : to convert a AVID DNXHD® EVS MXF file to Quick Time format
- *AVID DNXHD® Quick Time to EVS* : to convert a AVID DNXHD® Quick Time file to EVS MXF format

Type for encoders :
Select the type of codec to be used :

- *M-JPEG (EVS XT)* : to encode in EVS M-JPEG compatible with XT server family.
- *DV Family* : to encode using DV family formats (DV 25, DVCPRO 25/50, XDCAM (DVCAM), P2)
- *DVCPRO HD* : to encode using DVCPRO HD format
- *IMX- D10* : to convert to IMX format
- *MPEG2* : to convert to MPEG-2 formats.
- *MPEG1* : to convert to MPEG-1 formats.
- *HDV* : to convert to HDV compliant XDCAM HD.
- *Windows Media* : to convert to Windows Media family formats (WM9, MPEG-4)
- *EVS HD MJPEG Conversion* : to convert between HD MJPEG EVS and Standard formats
- *Graphic File XT Encoder* : to encode a MJPEG sequence from a bitmap
- *Avid DNxHD® Encoder* : To convert to Avid DNxHD® Encoder.

Settings :
This buttons allows to directly access the selected codec settings.

Post Processing :
Check this option to launch a Post Processing after the completion of a job (see General Settings).

Output path:

Select the destination file to be converted by browsing the folders. This path could be either a local directory, a remote directory (mapped drive) or a UNC.

Cancel Auto Start :
In case Auto Start Mode is selected in "General Settings" menu, the scan mode will automatically start when MediaXchange is launched. If you want to stop the scan mode before, click on this button before the end of the countdown.

Apply Changes :
Once a scan job has been defined, it is possible to change its settings. Select first the job, make the modification and then click on this button to update the scan job.

SCANNING ZONE

This zone is used to add source directories to be scanned. This directory could be either a local directory, a remote directory (mapped drive) or a UNC directory.

Each directory to be scanned is listed. The directory must be checked in order to enter in the conversion criteria.

PROCEDURE

1. Check the General Settings (see "tools" menu):
    a. Check box "Use TXT file" in "General Settings" MUST be selected
    b. Choose the timing mode : file creation date or file modification date. It is recommended to check "Use file creation date instead of file modification date" in "General Settings".
    c. Verify the Auto Start Mode selection
2. To add a new scan job :
    a. Select the output path, the file name will be identical to the source name with another extension
    b. Select the Mode
    c. Select the wrapper or the encoder
    d. Double check the codec settings
    e. Select PP if you want to launch a Post Process after the completion of a job.
    f. Add a new directory to scan by right clicking the scanning zone. Note that sub-directories are not scanned. They must be defined explicitly
3. If you want to add another scan job, return to step 2. This means different settings can be selected for each directory to scan (multi-scan mode).
4. Once a scan job has been defined, it is possible to change its settings. Select first the scan job in the scanning zone, make the modifications and then click on "Apply Changes" button to update the scan job.
5. Setup the Timing parameters (start Date/time and delay).
6. Select the directories to be scanned by checking them in the scanning zone.
7. Start the scanning process by pressing the "Start" button in the monitoring windows. The directories will be scanned successively approximately every 5 seconds.
8. For each new file to be converted, a "transcoding" status is displayed in the bottom right corner of the application window. "Encoding" status is also displayed in the History log window. And the progress bar is moving continuously or step by step.

9. A Post Process is started at the end of each job in case this option is selected in "General settings" menu.
10. In order to stop the scanning process or change the parameters, push the "stop" button in the monitoring zone.

CONVERSION CRITERIA

A file will **not be converted** in the following cases :

- The file does not belong to the directories which are checked in the scanning zone.
- Date and time defined in the file creation date or file modification date is older than the (start date/time + delay) defined in the Timing parameter.
- Date and time defined in the file creation date or file modification date is older than the local Windows time of the workstation.
- For each job in the TXT file, date and time is not older than the (start date/time + delay) defined in the Timing parameter AND the codec is identical.

A file will **always be converted** in the following cases :

- The file belongs to the directories checked in the scanning zone AND no TXT file is associated AND date and time defined in the file creation date or file modification date is more recent than the (start date/time + delay) defined in the Timing parameter.